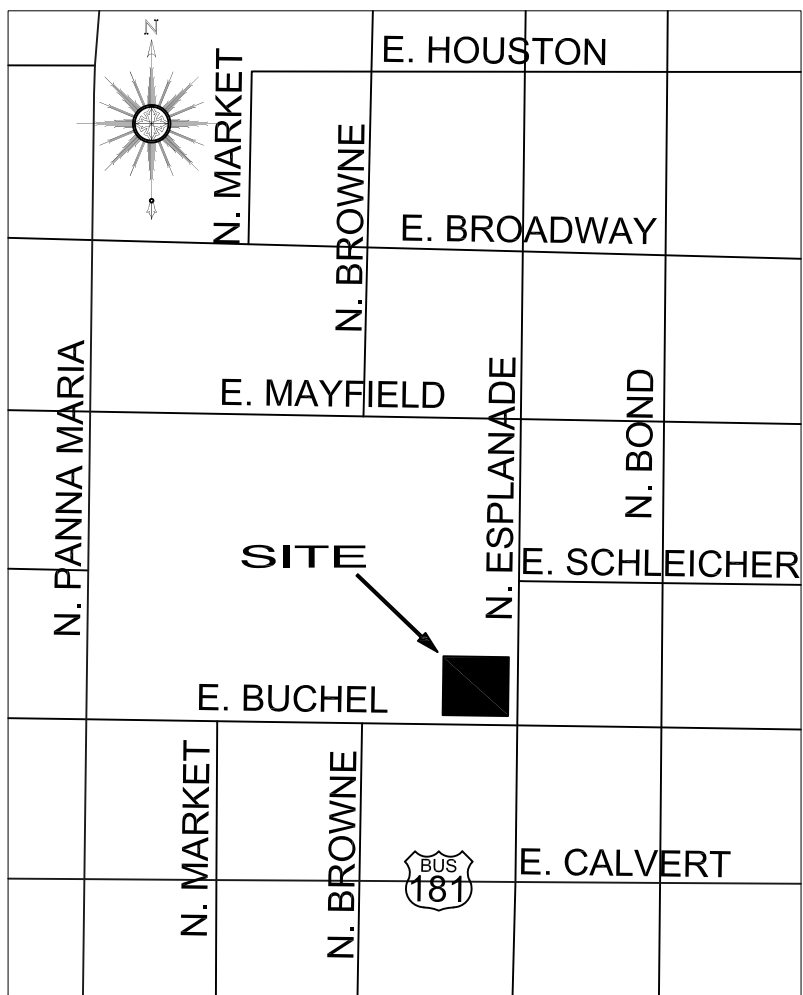


AREA MAP



VICINITY MAP

TABLE A1.1: SQUARE FOOTAGE/USE/LOAD FACTOR TABLE				
ROOM NAME	S.F.	USE	M.O.L.F.	O.L.
ASSEMBLY (101)	2510.5	UNCONCENTRATED - TABLES AND CHAIRS	15 NET	167
KITCHEN (102)	554.9	KITCHEN	50 NET	11
STORAGE/MECHANICAL SPACE (106, 107, 108, 109, 110)	1226.4	ACCESSORY	300 GROSS	4

M.O.L.F. = MINIMUM OCCUPANT LOAD FACTOR (2006 IBC, TABLE 1004.1.1)

O.L. = OCCUPANT LOAD

PROJECT DATA	
BUILDING CODE:	INTERNATIONAL BUILDING CODE, 2006 EDITION IBC
FIRE CODE:	INTERNATIONAL FIRE CODE, 2006 EDITION IFC
MECHANICAL CODE:	INTERNATIONAL MECHANICAL CODE, 2006 EDITION IMC
PLUMBING CODE:	INTERNATIONAL PLUMBING CODE, 2006 EDITION IPC
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE, 2005 EDITION NEC
ACCESSIBILITY CODE:	TEXAS ACCESSIBILITY STANDARDS (TAS APRIL 1994) & THE AMERICAN WITH DISABILITIES ACT (ANSI 117.1-1992)
ENERGY CODE:	INTERNATIONAL ENERGY CONSERVATION CODE, 2006 EDITION
FIRE PROTECTION CODE:	NATIONAL FIRE PROTECTION ASSOCIATION STANDARD (NFPA) 2006
ALL CODES HAVE LOCAL AMENDMENTS	
CONSTRUCTION TYPE:	V-B
OCCUPANCY TYPE:	A-3
OCCUPANCY SEPARATION:	NONE REQUIRED
AREA SEPARATION:	NONE REQUIRED
GROSS SQUARE FOOTAGE:	4,306 TOTAL

FIRST UNITED METHODIST CHURCH NEW FELLOWSHIP FACILITY

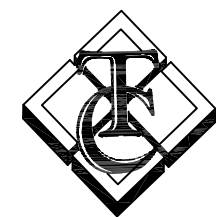
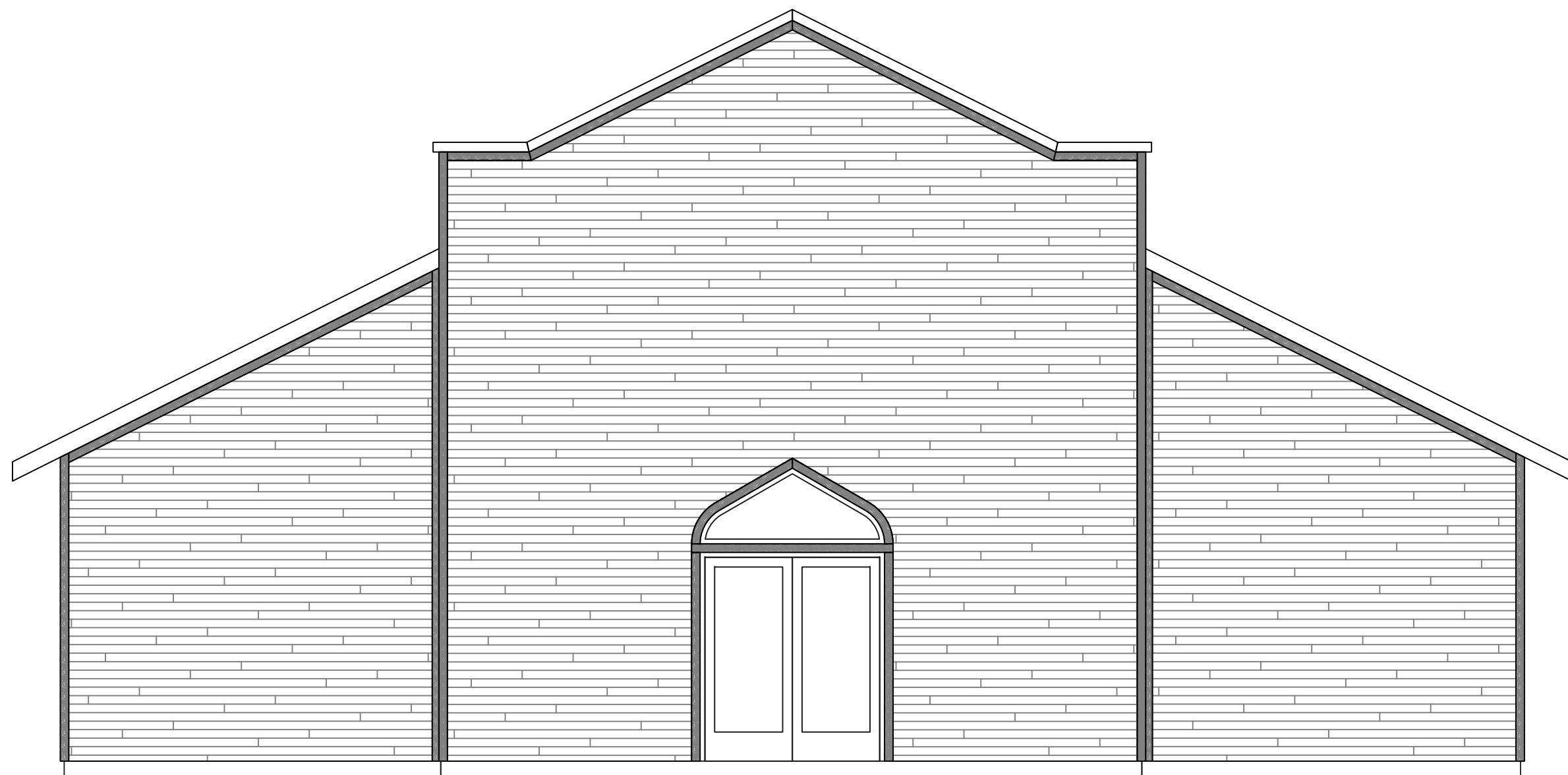
201 N. ESPLANADE STREET
KARNES CITY, TEXAS 78118
(830) 780-3307

GENERAL CONTRACTOR/DESIGNER:
TIMBERCON CONSTRUCTION, INC.
1241 UNIVERSAL CITY BLVD.
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SHEET LIST TABLE	
SHEET #	SHEET TITLE
GENERAL	
00	COVER SHEET
01	GENERAL NOTES
02	ADA GUIDELINES 1
03	ADA GUIDELINES 2
CIVIL	
C1	SITE GRADING AND UTILITY PLAN
ARCHITECTURAL	
D1	SITE DEMO PLAN
SP1	SITE PLAN
A2	FLOOR AND ROOF PLANS AND EXTERIOR ELEVATIONS
A3	SCHEDULES, DETAILS AND FINISHES
A4	BUILDING AND WALL SECTIONS
A5.1	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
A5.2	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
STRUCTURAL	
S1.1	FOUNDATION PLAN
S1.2	ROOF FRAMING PLAN
S2.1	FOUNDATION & FRAMING SECTIONS & GENERAL NOTES
S2.2	FRAMING SECTIONS & NOTES
MECHANICAL, ELECTRICAL AND PLUMBING (MEP)	
M1	HVAC PLAN, SCHEDULES, DETAILS AND GENERAL NOTES
E1.0	LIGHTING
E2.0	POWER
E3.0	RISER DIAGRAM AND SCHEDULES
P1	PLUMBING FLOOR PLANS, RISER DIAGRAMS, SCHEDULES AND DETAILS

CODE RESEARCH			SEC = SECTION
			T = TABLE
INTERNATIONAL BUILDING CODE 2006			
	INFORMATION	REFERENCE	NOTES
OCCUPANCY	A3 (ASSEMBLY)	SEC 303.1	
CONSTRUCTION TYPE	V-B		
TOTAL SQUARE FOOTAGE	4,306 S.F.		
	REQUIRED	PROVIDED	
SPRINKLER SYSTEM	NO	NO	SEC 903.2.1.3
BUILDING HEIGHT			
MAXIMUM FEET	40' ALLOWABLE, 25'-10" TO PARAPET PEAK	T503, SEC 504.2	
MAXIMUM STORIES	1 ALLOWABLE, 1 ACTUAL	T503, SEC 504.2	
CONSTRUCTION (FIRE RESISTIVE REQUIREMENTS)			
EXTERIOR BEARING WALLS	0	T508.3.3	
INTERIOR BEARING WALLS	0	T508.3.3	
EXTERIOR NON-BEARING WALLS	0	T508.3.3	
INTERIOR NON-BEARING WALLS	0	T508.3.3	
STRUCTURAL FRAME	0	T508.3.3	
PERMANENT PARTITIONS	0	T508.3.3	
SHAFT ENCLOSURES	N/A		
FLOORS/CEILINGS	0	T508.3.3	
ROOF/CEILINGS	0	T508.3.3	
EXTERIOR DOORS & WINDOWS	0	T508.3.3	
FIRE WALLS	0	T508.3.3	
STARWAY CONSTRUCTION	0	T508.3.3	
EXIT PASSAGEWAY/CORRIDOR	0	T508.3.3, T1017.1	
LIGHT, VENTILATION & SANITATION			
	REQUIRED	PROVIDED	
WATER CLOSETS	2	5	T2902.1
LAVATORIES	1	4	T2902.1
DRINKING FOUNTAINS	1	2	T2902.1
JANITOR SINKS	1	1	T2902.1
EXITING			
OCCUPANT LOAD FACTOR	REFER TO TABLE A1.1	T1004.1.1	
TOTAL OCCUPANT LOAD	182 TOTAL		
EXITS			
	REQUIRED	PROVIDED	
NUMBER OF EXITS	2	3	T1019.1
EGRESS WIDTH - TOTAL INCHES	36.4"	180"	T1005.1
MAXIMUM DISTANCE TO EXIT TWO SPRINKLER	200'	60'	T1016.1
EXIT DOOR WIDTH	32"	36", 72"	SEC 1008.1.1
EXIT DOOR HEIGHT	80"	84", 96"	SEC 1008.1.1

DEFINITIONS:

- 1. GENERAL CONTRACTOR SHALL BE DEFINED AS TIMBERCON CONSTRUCTION, INC.
- 2. SUBCONTRACTOR SHALL BE DEFINED AS CONTRACTOR

GENERAL NOTES:

- 1. VERIFICATION OF ALL EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. ALL DIMENSIONS ARE TO FACE OF STUDS FRAMING UNLESS NOTED OTHERWISE (U.N.O.).
- 3. REFER TO SCHEDULES FOR FINISHES AND DOOR TYPES.
- 4. FOR LIGHT LEGEND AND SCHEDULE, SEE ELECTRICAL DRAWINGS.
- 5. START CEILING SYSTEM GRID IN THE CENTER OF THE SPACE (U.N.O.).

GENERAL SUMMARY OF WORK:

- 1. DESCRIPTION OF WORK: UNLESS OTHERWISE SPECIFIED, THE CONTRACTORS SHALL SUPPLY ALL LABOR, TRANSPORTATION, MATERIALS, APPARATUS, FUEL, LIGHT, WATER, SCAFFOLDING, AND TOOLS NECESSARY FOR THE ENTIRE PROPER AND SUBSTANTIAL COMPLETION OF THE WORK, ENTITLED **FIRST UNITED METHODIST CHURCH – NEW FELLOWSHIP FACILITY**. THE CONTRACTORS MUST MAINTAIN AND REMOVE ALL EQUIPMENT OF CONSTRUCTION AND OTHER UTENSILS, AND BE RESPONSIBLE FOR LAWFUL CONSTRUCTION AND USE OF THE SAME. THE CONTRACTORS SHALL CONSTRUCT, COMPLETE, IN AN EXCELLENT AND WORKMANLIKE MANNER, READY FOR OCCUPANCY AND USE, THE BUILDING AND ALL APPURTENANCES, INCLUSIVE OF ALL ITEMS INCIDENTAL THERETO, AS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED BY EITHER, IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. PERMITS: APPLY FOR, OBTAIN, AND PAY FOR PERMITS REQUIRED TO PERFORM THE WORK. SUBMIT COPIES TO TIMBERCON CONSTRUCTION.
- 3. CODES: COMPLY WITH APPLICABLE CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. SUBMIT COPIES OF INSPECTION REPORTS, NOTICES AND SIMILAR COMMUNICATIONS TO TIMBERCON CONSTRUCTION.
- 4. TESTING: AN INDEPENDENT TESTING FIRM WILL BE HIRED TO PROVIDE STRUCTURAL TESTING AS SPECIFIED FOR CONCRETE AND STRUCTURAL FILL AND STRUCTURAL STEEL. REFER TO STRUCTURAL NOTES FOR TESTING SCHEDULE. ADDITIONAL TESTING REQUIRED WHEN TEST RESULTS INDICATE SPECIFIED STRUCTURAL CHARACTERISTICS HAVE NOT BEEN ATTAINED WILL BE AT CONTRACTOR'S EXPENSE. COORDINATE WITH TIMBERCON CONSTRUCTION AND TESTING SERVICE.
- 5. DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH ACTUAL FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 6. EXISTING CONDITIONS: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY TIMBERCON CONSTRUCTION IN WRITING OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS.
- 7. DEFINITIONS FOR TERMS USED IN THE SPECIFICATIONS:
 - A. PROVIDE: FURNISH AND INSTALL, COMPLETE WITH ALL NECESSARY ACCESSORIES, READY FOR INTENDED USE. PAY FOR ALL RELATED COSTS.
 - B. APPROVED: ACCEPTANCE OF ITEM SUBMITTED FOR APPROVAL. NOT A LIMITATION OR RELEASE FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS OR REGULATORY REQUIREMENTS.
- 8. INTENT: DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE THE BASIS FOR PROPER COMPLETION OF THE WORK SUITABLE FOR THE INTENDED USE OF THE OWNER. ANYTHING NOT EXPRESSLY SET FORTH BUT WHICH IS REASONABLY IMPLIED OR NECESSARY FOR PROPER PERFORMANCE OF THE PROJECT SHALL BE INCLUDED. IN THE EVENT OF CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE DRAWINGS TAKE PRECEDENCE.
- 9. APPLICATION FOR PAYMENT: THE OWNER SHALL MAKE PAYMENT FOR THE WORK MONTHLY. IT SHALL BE BASED ON APPROVED REQUEST FOR PAYMENT SUBMITTED TO THE OWNER BY TIMBERCON CONSTRUCTION ON STANDARD A.I.A. FORM 702 AND G 702A. THE REQUEST SHALL BE FOR ONLY MATERIAL AND LABOR PROPERLY INCORPORATED IN THE WORK AND MATERIAL SUITABLY STORED ON SITE. MATERIALS AND/OR EQUIPMENT STORED OFF-SITE SHALL NOT BE INCLUDED IN ANY REQUEST FOR PAYMENT UNLESS DOCUMENTATION IS SUBMITTED THAT VERIFIES THE ITEM IS INSURED AND IS ASSIGNED EXCLUSIVELY AS PROPERTY OF THE OWNER. THE REQUEST SHALL BE SUBMITTED ON THE TWENTY-FIFTH DAY OF EACH MONTH FOR PERCENTAGE OF WORK COMPLETED UP TO THE TWENTY-FIFTH DAY OF THE MONTH. A CERTIFICATE OF SUBSTANTIAL COMPLETION SHALL BE ISSUED TO THE CONTRACTORS WHEN THE WORK IS SUFFICIENTLY COMPLETE FOR THE OWNER TO USE THE FACILITY FOR ITS INTENDED PURPOSE. UPON RECEIPT OF THIS CERTIFICATE, 90% OF THE CONTRACT SUM IS DUE LESS THE COST OF THE ITEMS REMAINING INCOMPLETE. THE FINAL PAYMENT INCLUDING ALL RETAINAGE PROGRESSIVELY WITHHELD THROUGH OUT THE TERM OF THE PROJECT, SHALL BE MADE THIRTY (30) DAYS AFTER ALL WORK HAS BEEN COMPLETED. THIS PROJECT IS TAX EXEMPT.
- 10. CHANGE ORDERS: ANY CHANGES IN THE WORK OF THE CONTRACT SHALL BE DOCUMENTED AND SUBMITTED IN WRITING TO TIMBERCON CONSTRUCTION FOR APPROVAL. REQUEST MUST BE SIGNED BY A CORPORATE OFFICER OF TIMBERCON CONSTRUCTION TO BE VALID. NO CHANGE IN WORK SHOULD COMMENCE UNTIL APPROVAL IN WRITING HAS BEEN R

PROPERTY OF THE OWNER. IF THE CONTRACTOR FAILS TO FURNISH EVIDENCE OF PAYMENT UPON REQUEST, THE OWNER SHALL HAVE NO OBLIGATION TO MAKE FURTHER PAYMENTS ON THAT PART OF THE WORK INVOLVING THE LIENABLE CLAIM UNTIL THE SAME IS FURNISHED.

TEMPORARY FACILITIES:

- 1. PROVIDE TEMPORARY SERVICES AND UTILITIES, INCLUDING UTILITY COSTS:
 - WATER
 - LIGHTING AND POWER
 - METERING
 - TELEPHONE OR OTHER MEANS OF COMMUNICATION AT THE JOB SITE.
 - PORTABLE TOILET FACILITIES
 - MATERIALS STORAGE
- 2. PROVIDE CONSTRUCTION FACILITIES, INCLUDING UTILITY COSTS:
 - CONSTRUCTION EQUIPMENT
 - DEWATERING AND PUMPING, AS REQUIRED.
 - ACCESS.
- 3. PROVIDE SECURITY AND PROTECTIONS REQUIREMENTS:
 - FIRE EXTINGUISHERS
 - ALL ITEMS INTENDED FOR INSTALLATION ON THE PROJECT.
 - ENVIRONMENTAL PROTECTION.
- 4. PROVIDE PERSONNEL SUPPORT FACILITIES:
 - CONTRACTOR'S FIELD OFFICE
 - SANITARY FACILITIES
 - CLEANING AND TRASH REMOVAL

PROJECT COORDINATION:

- 1. COORDINATION: COORDINATE VARIOUS ELEMENTS OF THE WORK AND ENTITIES ENGAGED TO PERFORM WORK AND COORDINATE THE WORK WITH EXISTING FACILITIES/CONDITIONS, AND WITH THE WORK DONE BY SEPARATE CONTRACTORS.
- 2. INSTALLER INSPECTIONS: INSTALLER OF EACH MAJOR UNIT OF WORK TO INSPECT SUBSTRATE AND CONDITIONS FOR INSTALLATION AND TO REPORT UNSATISFACTORY CONDITIONS. CORRECT UNSATISFACTORY CONDITIONS BEFORE PROCEEDING. INSPECT EACH PRODUCT IMMEDIATELY BEFORE INSTALLATION. DO NOT INSTALL DAMAGED OR DEFECTIVE PRODUCTS, MATERIALS OR EQUIPMENT.
- 3. COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO EXTENT PRINTED INFORMATION IS MORE DETAILED OR STRINGENT THAN IT IS POSSIBLE TO ACHIEVE. PROVIDE FOR UNIFORMITY, VISUAL EFFECT, OPERATIONAL EFFICIENCY, DURABILITY, AND SIMILAR BENEFIT TO OWNER'S USE. ISOLATE NON-COMPATIBLE MATERIALS FROM CONTACT, SUFFICIENTLY TO PREVENT DETERIORATION.
- 4. CLEANING AND PROTECTION: CLEAN EACH ELEMENT OF WORK AT TIME OF INSTALLATION. PROVIDE SUFFICIENT MAINTENANCE AND PROTECTION DURING CONSTRUCTION TO ENSURE FREEDOM FROM DAMAGE AND DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

DEMOLITION NOTES:

- 1. UTILITIES TO COORDINATE SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - A. ELECTRICAL
 - B. WATER
 - C. SEWER
 - D. STORM WATER
 - E. SAWS WATER AND SEWER
- 2. PROTECT EXISTING WIRING, CONDUIT, BOXES AND FIXTURES DURING DEMOLITION AND CONSTRUCTION.
- 3. PROTECT WATER LINES AND SEWER LINES DURING DEMOLITION AND CONSTRUCTION.
- 4. ALL REMOVED MATERIAL INDICATED TO BE SALVAGED AND REUSED SHALL BE STORED AND PROTECTED IN AN APPROPRIATE MANNER UNTIL REINSTALLED.
- 5. ALL DEMOLITION SHALL BE EXECUTED WITH CARE TO PROTECT THE SITE FROM DANGER.
- 6. SUBCONTRACTOR SHALL BARRICADE WORK AS SPECIFIED AND PROVIDE A CLEAN SITE FREE OF OBSTACLES.
- 7. FILL ALL HOLES AND DISTURBANCES CREATED DURING DEMOLITION PROCESS WITH AN APPROVED TOPSOIL. ROLL TO LEVEL GRADE AND HYDROSEED AS PER SPECIFICATIONS.

ACCESSIBILITY REQUIREMENT NOTES:

- 1. ALL CONSTRUCTION AS PART OF THIS PROJECT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE GUIDELINES ESTABLISHED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS).
- 2. THE CONTRACTOR SHALL REPORT TO TIMBERCON CONSTRUCTION ANY AND ALL DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS AND THE DESIGN GUIDELINES ESTABLISHED BY THE ADA AND THE TAS PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL UTILIZE EXTREME CARE TO INSURE THAT ALL TOLERANCES, DIMENSIONS AND CLEARANCES ARE CONSTRUCTED ACCURATELY AND WITHOUT DEVIATION.
- 4. THE CONTRACTOR IS REQUIRED TO TAKE ANY AND ALL ACTIONS NECESSARY TO CORRECT CONDITIONS WHICH ARE, IN THE OPINION OF THE STATE ACCESSIBILITY INSPECTOR, IN VIOLATION OF TAS GUIDELINES AS THE DIRECT RESULT OF DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS OR INADEQUATE CONSTRUCTION CONTROL AND/OR TOLERANCES.

CONTRACT CLOSE-OUT:

- 1. THE FOLLOWING ARE PREREQUISITES TO SUBSTANTIAL COMPLETION. PROVIDE THE FOLLOWING:
 - PUNCH LIST
 - SUPPORTING DOCUMENTATION
 - WARRANTIES
 - CERTIFICATIONS
 - OCCUPANCY PERMIT
 - STARTUP AND TESTING OF BUILDING SYSTEMS
- 2. PROVIDE THE FOLLOWING PREREQUISITES TO FINAL ACCEPTANCE:
 - FINAL PAYMENT REQUEST WITH SUPPORTING AFFIDAVITS
 - COMPLETED PUNCH LIST
- 3. PROVIDE A MARKED-UP SET OF RECORD DRAWINGS AND PROJECT MANUAL INCLUDING CHANGES WHICH OCCURRED DURING CONSTRUCTION (AS-BUILTS).
- 4. PROVIDE THE FOLLOWING CLOSE-OUT PROCEDURES:
 - SUBMISSION OF RECORD DOCUMENTS
 - SUBMISSION OF MAINTENANCE MANUALS
 - REVIEW OF SYSTEMS AND OPERATING INSTRUCTION WITH OWNER PRIOR TO TURNOVER TO OWNER
 - FINAL CLEANING AND TOUCH UP
 - REMOVAL OF TEMPORARY FACILITIES
- 5. REMOVE FROM THE SITE ALL EXCESS MATERIALS AND DEBRIS RESULTING FROM WORK UNDER THIS SECTION. IF DEBRIS IS DISPOSED OF IN CONSTRUCTION DUMPSTER, ALL BOXES, ETC. MUST BE BROKEN DOWN.
- 6. REPAIR ANY DAMAGE TO THE BUILDING OR GROUNDS, RESULTING FROM THESE OPERATIONS, TO THE OWNER'S SATISFACTION.

PRODUCTS AND SUBSTITUTIONS:

- 1. PROVIDE PRODUCTS FROM ONE MANUFACTURER FOR EACH TYPE OR KIND AS APPLICABLE. PROVIDE SECONDARY MATERIALS AS RECOMMENDED BY MANUFACTURERS OF PRIMARY MATERIALS.
- 2. PROVIDE PRODUCTS SELECTED OR APPROVED EQUAL. PRODUCTS SUBMITTED FOR SUBSTITUTION SHALL BE SUBMITTED WITH ACCEPTABLE DOCUMENTATION, AND INCLUDE COSTS OF SUBSTITUTION INCLUDING RELATED WORK. ALL SUBSTITUTIONS SHALL BE DOCUMENTED AND SUBMITTED IN WRITING.
- 3. CONDITIONS FOR SUBSTITUTION INCLUDE:
 - A. AN "OR EQUAL" PHRASE IN THE SPECIFICATIONS
 - B. SPECIFIED MATERIAL CANNOT BE COORDINATED WITH OTHER WORK
 - C. SPECIFIED MATERIAL IS NOT ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 - D. SUBSTANTIAL ADVANTAGE IS OFFERED OWNER IN TERMS OF COST, TIME, OR OTHER VALUABLE CONSIDERATION.
- 4. SUBSTITUTIONS SHALL BE SUBMITTED PRIOR TO AWARD OF CONTRACT, UNLESS OTHERWISE ACCEPTABLE. APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES IS NOT A SUBSTITUTION APPROVAL UNLESS CLEARLY PRESENTED AS A SUBSTITUTION AT THE TIME OF SUBMITTAL.
- 5. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURER WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCE INSTALLERS. DELIVER, HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 6. DELIVERY OF PRODUCTS: DELIVER MATERIALS TO JOB SITE IN MANUFACTURER'S ORIGINAL UNOPENED CONTAINERS WITH MANUFACTURER'S NAME AND BRAND CLEARLY MARKED THEREON.
- 7. STORE MATERIALS OFF GROUND AND PROTECT AGAINST WEATHER, CONDENSATION AND DAMAGE. REMOVE DAMAGED MATERIALS FROM SITE.

REFLECTIVE CEILING PLAN GENERAL NOTES:

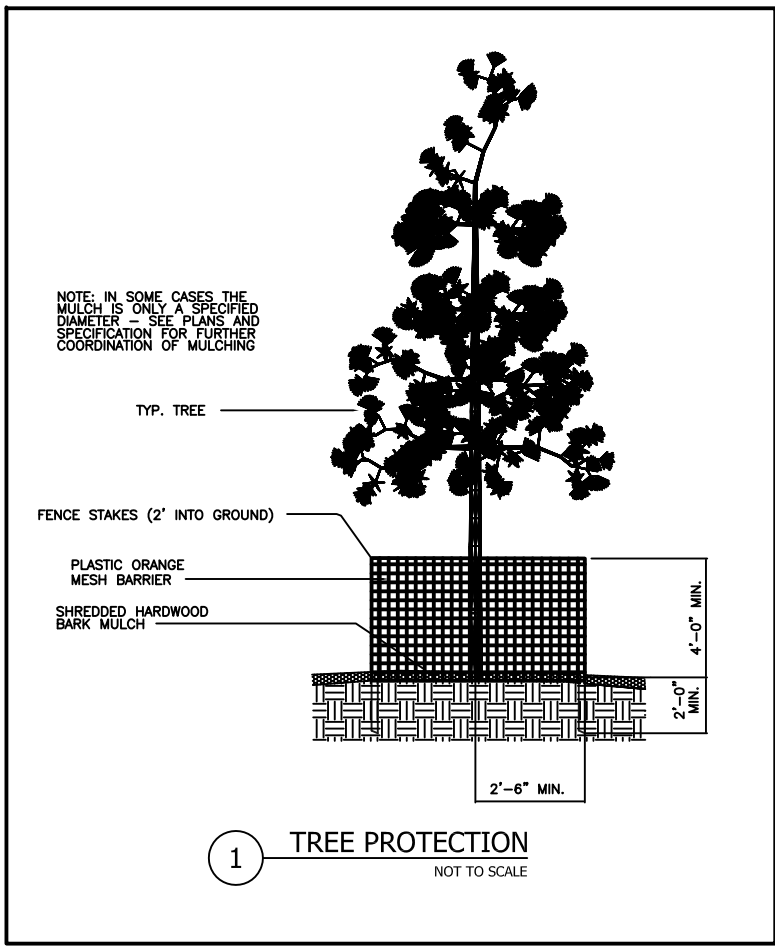
- 1. ANY CONFLICTS BETWEEN BASE BUILDING SYSTEMS AND LIGHTS ARE TO BE BROUGHT TO THE ATTENTION OF TIMBERCON CONSTRUCTION PRIOR TO INSTALLATION.
- 2. CONTRACTOR TO VERIFY ALL RECESS DEPTHS OF FIXTURES AGAINST HVAC DUCTS, PIPES, BAR JOISTS, ETC. AND NOTIFY ARCHITECT OF ANY CONFLICTS.
- 3. REFER TO ELEVATIONS FOR FURR DOWN LOCATIONS. COORDINATE EXACT WIDTH OF FURR DOWNS WITH MILL WORKERS SHOP DRAWINGS. FURR DOWN TO ALIGN WITH END OF UPPER CABINETS ON FINAL DRAWINGS.
- 4. CONTRACTOR TO INSPECT DURING BIDDING PROCESS FOR ROOF LEAKS AND/OR DAMAGE TO EXISTING CEILINGS, LIGHT FIXTURES, ETC. AND PROVIDE SEPARATE PRICING FOR REPAIRS.
- 5. CONNECT UNDER COUNTER LIGHTS TO SWITCH LEFT FOR INDIVIDUAL ROOMS.
- 6. FIRE ALARM PULLS AND SMOKE DETECTORS TO BE LOCATED BY LOCAL CODE/AUTHORITY.
- 7. CEILING HEIGHT IS 9' ABOVE FINISH FLOOR (AFF) UNLESS NOTED OTHERWISE (U.N.O.).
- 8. DOWN LIGHTS TO BE CENTERED IN CEILING TILE U.N.O.
- 9. CONTRACTOR TO PROVIDE AND INSTALL LIGHT FIXTURES. REFER TO MEP'S FOR SPECS.

CLEANING AND PROTECTION:

- 1. DISPOSE OF EXCESS MATERIALS AND REMOVE DEBRIS FROM SITE.
- 2. CLEAN WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. PROTECT WORK AGAINST DAMAGE UNTIL FINAL ACCEPTANCE. REPLACE OR REPAIR TO THE SATISFACTION OF TIMBERCON CONSTRUCTION AND OWNER. ANY WORK THAT BECOMES DAMAGED PRIOR TO FINAL ACCEPTANCE.
- 4. TOUCH UP MINOR SCRATCHES AND ABRASIONS WITH TOUCH UP PAINT OR AS RECOMMENDED BY COATING MANUFACTURER FOR FIELD APPLICATION.
- 5. DO NOT ALLOW PANELS OR TRIM TO COME IN CONTACT WITH DISSIMILAR METALS SUCH AS COPPER, LEAD OR GRAPHITE. WATER RUN-OFF FROM THESE MATERIALS IS ALSO PROHIBITED. THIS SPECIFICALLY INCLUDES CONDENSATE FROM ROOF TOP A/C UNITS.
- 6. PROTECT FINISHED ALUMINUM SURFACES WITH WRAPPING. DO NOT USE ADHESIVE PAPERS OR SPRAYED COATINGS WHICH BOND TO ALUMINUM WHEN EXPOSED TO SUNLIGHT OR WEATHER.
- 7. STORE MATERIALS IN A DRY PROTECTED AREA. PROTECT AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PREVENT DAMAGE, SOILING, OR DETERIORATION.

TREE PROTECTION NOTES:

- 1. EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION (L.O.C.) ARE TO BE PRESERVED UNLESS OTHERWISE INDICATED. THE CONTRACTOR IS TO STAKE THE PROPOSED IMPROVEMENTS FOR REVIEW BY THE LANDSCAPE ARCHITECT. TREES TO REMAIN SHALL BE PROTECTED AS NOTED BELOW. EXISTING TREES, OUTSIDE THE L.O.C., ARE TO BE PRESERVED FROM ANY DAMAGE BY THE CONTRACTOR. ANY TREES DAMAGED BY THE CONTRACTOR WILL BE REPLACED AS DETERMINED BY THE LANDSCAPE ARCHITECT.
- 2. ORANGE MESH BARRIER FENCE SHALL BE ERECTED AT THE L.O.C. AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED. THE FENCING WILL ALSO BE ERECTED ABOUT THE ROOT PROTECTION ZONE (RPZ) OF TREES THAT ARE TO REMAIN WITHIN THE L.O.C. THE RPZ SHALL BE DETERMINED BY THE TREE TRUNK SIZE (RECOMMENDED 6" RADIUS FROM THE TRUNK FOR EVERY 1" DIAMETER OF TRUNK AT 6" ABOVE GROUND) WITH A MINIMUM OF 30" RADIUS. FENCE TREE GROUPINGS WHERE POSSIBLE (REFER TO DETAIL 1)



- 3. RPZ SHALL BE SUSTAINED IN A NATURAL STATE AND SHALL BE FREE FROM VEHICULAR OR MECHANICAL TRAFFIC. NO FILL EQUIPMENT, LIQUIDS OR CONSTRUCTION DEBRIS SHALL BE PLACED INSIDE THE PROTECTIVE BARRIER.
- 4. THE RPZ SHALL BE COVERED WITH MULCH TO REDUCE MOISTURE STRESS (REFER TO DETAIL 1 BELOW).
- 5. ANY DAMAGE DONE TO EXISTING TREES CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY. ALL WOUNDS TO LIVE OAKS WILL BE PAINTED WITH PRUNING PAINT WITHIN MINUTES AFTER DAMAGE. ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS WILL BE CUT CLEANLY.
- 6. THE PROPOSED FINISH GRADE AND ELEVATION OF LAND WITHIN THE RPZ OF ANY TREE TO BE PRESERVED SHALL NOT BE RAISED OR LOWERED MORE THAN 3". WELLING AND RETAINING METHODS ARE ALLOWED OUTSIDE THE RPZ.
- 7. THE RPZ SHALL REMAIN PERVIOUS, I.E. GROUND COVER OR TURF AT COMPLETION OF LANDSCAPE DESIGN.

SITE PLAN GENERAL NOTES:

- 1. COMPLY WITH TEXAS DEPARTMENT OF HEALTH AND PUBLIC SAFETY SPECIFICATIONS, CITY OF KARNES CITY, OR TEXAS HIGHWAY DEPARTMENT STANDARDS FOR CONSTRUCTION OF ALL DRIVEWAYS IN STREET RIGHT-OF-WAY.
- 2. SPECIAL CARE SHALL BE TAKEN WITH NEW CONSTRUCTION ALONG ADJACENT PROPERTY LINES. ADJACENT PROPERTY IS ALTERED ONLY AS SPECIFICALLY REQUIRED IN THESE DRAWINGS AND SPECIFICATIONS, AND RESTORED TO ORIGINAL CONDITION BY CONTRACTOR IF ANY DAMAGE OCCURS.
- 3. REFER TO CIVIL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL UTILITY SERVICES TO AND ON THIS SITE.
- 4. REPAIR ALL LANDSCAPING AND GRASS AREAS DAMAGED BY CONSTRUCTION. BACK FILL WITH TOP SOIL AND GRASS PER LANDSCAPE SPECIFICATIONS.
- 5. ACCESSIBLE PARKING SPACES SHOWN ON THE SITE PLAN ARE DESIGNATED BY ABOVE GRADE SIGN AT EACH SPACE PER STATE AND LOCAL APPLICABLE CODES AND STANDARDS. MANEUVERING SPACE BETWEEN EACH TO HAVE 4" WIDE PAINTED WHITE STRIPES AT 12" O.C. (OR AS INDICATED BY LOCAL CODES). PROVIDE CONCRETE RAMP AT WALKS AS DESIGNATED ON PLANS.
- 6. SLOPE ACCESSIBLE RAMPS AT 1:12 MAXIMUM. REFER TO PLANS. SCORE RAMP SURFACE AT 5" O.C. PROVIDE NONSKID FINISH ON ACCESSIBLE AND DELIVERY RAMPS.
- 7. DO NOT RESTRICT ACCESS TO ADJACENT BUILDINGS, SITES, OR ROADWAYS.
- 8. SET IRRIGATION SLEEVES 24" BELOW GRADE AT PAVED DRIVE OR SIDEWALK AREAS. PROVIDE IRON PINS AT EACH END TO MARK LOCATIONS. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
- 9. PIPES INDICATED AS "ELEC. PVC" ARE FOR FUTURE USE AND STUBBED UP TO 4" TO 6" BELOW FINISH GRADE AND CAPPED. MARK EACH END WITH AN IRON PIN. INSTALL PULL WIRES IN EEC. PVC SLEEVES.
- 10. SIDEWALKS ARE MIN. 4-½" THICK WITH 6"x6" W2.9/W2.9 WELDED WIRE FABRIC TYPICAL.
- 11. CONFORM TO THE REQUIREMENTS IN THE CIVIL DRAWINGS RELATED TO THE "POLLUTION PROTECTION PLAN" AND THE EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM.
- 12. OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO PERFORM DEMOLITION WORK WITHIN THE PROPERTY LINE AND IN THE STREET RIGHT-OF-WAY.
- 13. COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND PLUGGING OF PUBLIC UTILITIES SERVING STRUCTURES TO BE DEMOLISHED.
- 14. DEMOLITION OF STREET CURBS AS SHOWN ON THIS PLAN AND ON CIVIL DRAWINGS ARE TO BE THE MINIMUM REQUIRED FOR NEW CONSTRUCTION. REPLACE OR REPAIR CURBS REQUIRING DEMOLITION TO FACILITATE NEW CONSTRUCTION.
- 15. ARRANGE AND PAY FOR RELOCATION OF POWER POLES AND UTILITIES REQUIRING DEM
- 16. MOVEMENTS. PUBLIC OR PRIVATE, BY CONTRACTOR ARE TO BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
- 18. PUMP OPEN TRENCHES AT PERIMETER OF EXISTING PAVING OR AROUND NEW CONSTRUCTION FREE OF STANDING WATER AT ALL TIMES.
- 19. EXISTING CONCRETE PAVING IS TO BE REMOVED, SAW CUT EXISTING PAVING TO LIMITS INDICATED TO A DEPTH OF NOT LESS THAN 2 INCHES. BREAK OUT REMAINING CONCRETE. EXPOSED 18 INCHES OF EXISTING REINFORCING. CUT REINFORCING CLEANLY, SUCH THAT THE REINFORCING IS LEFT IN PLACE WITH THE PAVEMENT TO REMAIN. BEND STEAL OUT OF THE WAY. REMOVE AND DISPOSE OF EXISTING PAVEMENT INDICATED.
- 20. WHERE EXISTING CONCRETE CURB IS TO BE REMOVED, SAW CUT EXISTING CURB 1-½ INCHES DEEP MIN. AND REMOVE TWO FEET OF EXISTING PAVING FOR NEW CONNECTION.
- 21. UNLESS OTHERWISE NOTED, PERIMETER LANDSCAPING ABUTTING CURBS ARE TO BE GRADED TO TOP OF CURB. PROVIDE FERTILE, SANDY LOAM FILL TO TOP OF CONCRETE CURB AT ALL AREAS DESIGNATED AS LANDSCAPE AREAS. SEE ALSO LANDSCAPING DRAWINGS.
- 22. REFER TO PLUMBING OR ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION AND RELATED DETAILS FOR ALL GAS, POWER, TELEPHONE AND CABLE SLEEVES.

REVISIONS:	
DATE	BY

FIRST UNITED METHODIST CHURCH

201 N. ESPLANADE STREET
KARNES CITY, TEXAS 78118
(830) 780-3307

TIMBERCON CONSTRUCTION, INC

1241 UNIVERSAL CITY BLVD.
UNIVERSAL CITY, TX 78148
(210) 590-2544
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THE SPECIFICATIONS ON THIS SHEET SHALL BE USED AS APPLICABLE UNLESS SPECIFICALLY NOTED ELSEWHERE

GENERAL NOTES

- FOR SUBJECT FACILITIES, CONFORMANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) IS REQUIRED BY THE TEXAS ARCHITECTURAL BARRIERS ACT (ARTICLE 9102, TEXAS CIVIL STATUTES).
- CONTRACTOR SHALL OBTAIN A COPY OF THE PROJECT TEXAS ACCESSIBILITY STANDARDS (TAS) PLAN REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION OR AS SOON AS POSSIBLE IF PLAN REVIEW IS PREPARED AFTER COMMENCEMENT OF CONSTRUCTION. TAS PLAN REVIEW MAY BE REQUESTED FROM THE PROJECT DESIGN PROFESSIONAL OR OWNER. CONTRACTOR SHALL REVIEW THE TAS PLAN REVIEW LETTER AND ACCOMPANYING REPORT. IF NON CONFORMING ELEMENTS PROPOSED ON PLANS ARE CITED CONTRACTOR SHALL COORDINATE CORRECTIVE ACTION WITH THE APPLICABLE PROJECT DESIGN PROFESSIONAL.
- CONTRACTOR SHALL KEEP A COPY OF THE CURRENT TEXAS ACCESSIBILITY STANDARDS AND ALL TECHNICAL MEMORANDUMS ONSITE FOR REFERENCE PURPOSES THROUGHOUT CONSTRUCTION. COPIES OF THE TEXAS ACCESSIBILITY STANDARDS AND TECHNICAL MEMORANDUM MAY BE DOWNLOADED FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION VIA THE FOLLOWING METHODS:
A) TELEPHONE ORDER: (877) 278-0999
B) INTERNET ORDER: <http://www.license.state.tx.us/ab/forms/AB040.pdf>
C) PDF DOWNLOAD: <http://www.license.state.tx.us/ab/tascomplete.pdf>

GROUND AND FLOOR SURFACES

- ANY CHANGE IN LEVEL EXPERIENCED FROM ONE GROUND/FLOOR SURFACE TO AN ADJOINING GROUND/FLOOR SURFACE SHALL BE LIMITED TO 1/4" (OR 1/2" IF BEVELED 1:2).
- THE FOLLOWING CARPET SPECIFICATIONS SHALL BE FOLLOWED:
A) CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED.
HAVE A FIRM CUSHION, PAD, OR BACKING (OR NO CUSHION OR PAD);
AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT PILE TEXTURE.
B) CARPET TILE THICKNESS SHALL BE 1/2" OR LESS.

ALL PROPOSED CARPET FLOOR FINISHES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO MATERIAL ORDER OR INSTALLATION IF CARPET IS TO BE PROVIDED BY OWNER FOR CONFORMANCE WITH THE ABOVE CITED SPECIFICATIONS. IF ANY OF THE ABOVE CARPET SPECIFICATIONS ARE NOT MET, CONTRACTOR SHALL CEASE CARPET ORDER AND/OR INSTALLATION WORK AND INFORM ARCHITECT AND OWNER (IN WRITING) THAT PROPOSED CARPET DOES NOT CONFORM TO TAS SECTION 4.5.3.

DRINKING FOUNTAINS

- ALL WALLPOST MOUNTED CANTILEVERED DRINKING FOUNTAIN UNITS SHALL BE MOUNTED WITH THE BOTTOM OF THE ACCESSIBLE EQUIPMENT SHEATH 27" A.F.F.
- ANY CANTILEVERED WALLPOST MOUNTED DRINKING FOUNTAINS PROPOSED PROJECTING INTO WALKWAYS, HALLWAYS, CORRIDORS, PASSAGEWAYS, OR AREAS THAT ARE NOT PROTECTED BY WING WALLS OR OTHERWISE RECESSED CONSTITUTE A PROTRUDING OBJECT VIOLATION UNDER TAS SECTION 4.1.1. DUE TO THE 1/4" SIDE EQUIPMENT SHEATH BEING > 27" A.F.F., IN THESE INSTANCES, CONTRACTOR SHALL USE THE ALTERNATE ACCESSIBLE SIDE SHEATH OFFERED BY THE APPROPRIATE DRINKING FOUNTAIN MANUFACTURER. THIS ALTERNATE SHEATH EXTENDS THE TRADITIONAL EQUIPMENT SHEATH KNEE CLEARANCE OF THE DRINKING FOUNTAIN TO 27" A.F.F. TO AVOID A PROTRUDING OBJECT VIOLATION. IF UNAVAILABLE, CONTRACTOR SHALL CONTACT PROJECT DESIGN PROFESSIONAL OR OWNER IMMEDIATELY FOR FURTHER INSTRUCTION.

DOOR INSTALLATION

- HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.
- WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
- HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
- IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
(A) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE
BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
(B) INTERIOR HINGED DOORS: 5 LBS
(C) SLIDING OR FOLDING DOORS: 5 LBS
- AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10-1985, SLOWLY OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI A156.19-1994. SUCH DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBS TO STOP DOOR MOVEMENT. IF A POWER-ASSISTED DOOR IS USED, ITS DOOR-OPENING FORCE SHALL COMPLY WITH 4.13.11 AND ITS CLOSING SHALL CONFORM TO THE REQUIREMENTS IN ANSI A156.19-1994. IF USER-OPERATED CONTROLS ARE PROVIDED THEY SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) SECTION 4.27.

LAVATORIES & MIRRORS

- HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR BE OTHERWISE PROTECTED AGAINST CONTACT THRU USE OF AN EQUIPMENT SHEATH. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- FAUCETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE FAUCET SHALL BE NO GREATER THAN 5 LBF. FAUCETS SHALL EITHER BE LEVER-OPERATED, PUSH-TYPE, OR ELECTRONICALLY CONTROLLED. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
- ACCESSIBLE LAVATORIES (ADULT USE) SHALL BE AN ADA/BARRIER-FREE MANUFACTURER MODEL TYPE WITH INSTALLED SEAT HEIGHTS OF 17 TO 19" MEASURED TOP OF SEAT ABOVE FINISHED FLOOR.
NOTE: BY MOUNTING ADA/BARRIER-FREE MODEL, ADULT ACCESSIBLE LAVATORIES 34" MEASURED TO TOP OF RIM A.F.F., THE 29" MINIMUM RIM UP - 27" MINIMUM KNEE CLEARANCE REQUIRED BY TAS WILL BE MET.
- ALL ACCESSIBLE LAVATORY MIRRORS SHALL BE MOUNTED WITH THEIR REFLECTIVE SURFACE (EXCLUDES FRAME) 40" A.F.F. IF ONLY ONE MIRROR IS PRESENT IN A TOILET ROOM AREA (IN A STALL, AT A LAVATORY, OR OTHERWISE), THE TOP REFLECTIVE SURFACE OF THAT LAVATORY MIRROR SHALL EXTEND TO AT LEAST 74" A.F.F.
NOTE: UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL USE BORBORCK B-165 (2436) MIRROR OR EQUIVALENT

WATER CLOSETS

- ACCESSIBLE WATER CLOSETS (ADULT USE) SHALL BE AN ADA/BARRIER-FREE MANUFACTURER MODEL TYPE WITH INSTALLED SEAT HEIGHTS OF 17 TO 19" MEASURED TOP OF SEAT ABOVE FINISHED FLOOR.
- WATER CLOSET FLUSH VALVES SHALL BE LOCATED ON THE WIDE SIDE (AWAY FROM THE SIDE GRAB BAR). CONTRACTOR SHALL REVIEW PLANS PRIOR TO ORDERING WATER CLOSET FIXTURES TO ENSURE ADEQUATE NUMBER OF RIGHT & LEFT WATER CLOSET TANKS AND/OR REQUIRED PLUMBING IS ORDERED TO MEET THIS REQUIREMENT.
- GRAB BARS FOR ALL WATER CLOSETS (STALL OR OTHERWISE) SHALL BE MOUNTED IN THE FOLLOWING MANNER:
- UNLESS OTHERWISE SPECIFIED, THE FOLLOWING GRAB BARS MODELS SHALL BE USED:
BORBORCK B-880636 (REAR GRAB BAR OR EQUIVALENT)
BORBORCK B-880642 (SIDE GRAB BAR) OR EQUIVALENT
- CONTRACTOR SHALL LOCATE WATER CLOSET 18" (EXACTLY) FROM THE FINISHED FACE OF SIDE WALL/PARTITION MEASURED TO THE CENTER OF THE WATER CLOSET. CONTRACTOR SHALL COORDINATE WITH PLUMBING SUBCONTRACTOR TO ENSURE WATER CLOSET DRAIN PIPES ARE LOCATED TO ACCOUNT FOR PROPOSED WALL FINISH THICKNESS (GYPSUM BOARD, TILES, ETC.).
- FOR PROPOSED SINGLE OCCUPANCY TOILET ROOMS LESS THAN 6 FT WIDE (CLEAR) WHERE THE LAVATORY IS SHARING THE SAME WET WALL AS THE WATER CLOSET, THE CONTRACTOR SHALL LOCATED REAR GRAB BAR UP AGAINST THE SIDE WALL TO ENSURE GRAB BAR MOUNTING WILL NOT CONFLICT WITH LAVATORY LOCATION.

URNALS

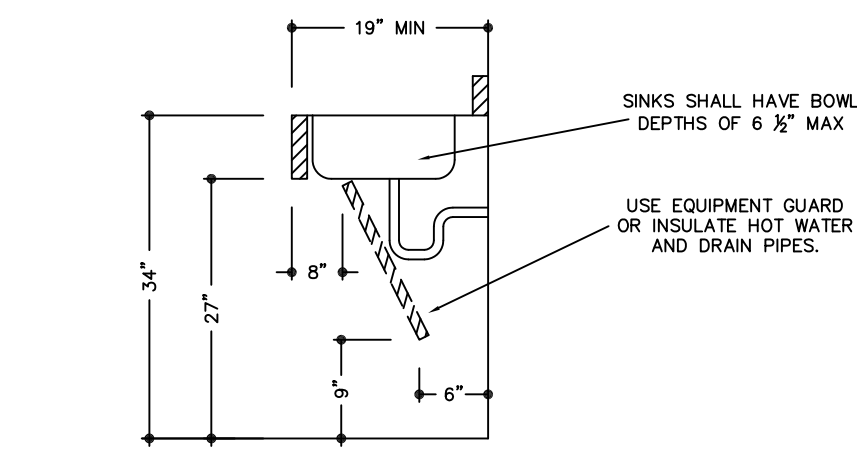
- ACCESSIBLE URINALS (ADULT USE) SHALL BE AN ADA/BARRIER-FREE MANUFACTURER MODEL TYPE AND SHALL BE MOUNTED WITH A RIM HEIGHT OF 17" A.F.F.
- URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE FAUCET SHALL BE NO GREATER THAN 5 LBF. URINAL FLUSH CONTROLS SHALL EITHER BE HAND OPERATED OR AUTOMATIC AND SHALL BE LOCATED < 44" A.F.F.
- URINAL LOCATED IN AN ALCOVE CONDITION > 24" DEEP SHALL PROVIDE 36" OF CLEAR FLOOR SPACE WITHIN THE ALCOVE CONDITION.

EXAMPLES OF ALCOVE CONDITIONS:



SINKS

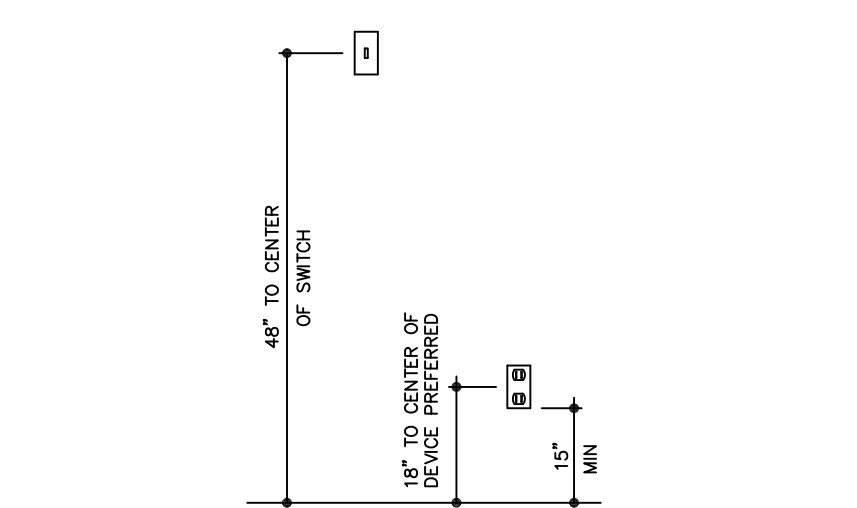
- HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR BE OTHERWISE PROTECTED AGAINST CONTACT THRU USE OF AN EQUIPMENT SHEATH. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
- FAUCETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE FAUCET SHALL BE NO GREATER THAN 5 LBF. FAUCETS SHALL EITHER BE LEVER-OPERATED, PUSH-TYPE, TOUCH-TYPE OR ELECTRONICALLY CONTROLLED.
- SINKS SHALL BE INSTALLED WITH THE TOP OF RIM 34" A.F.F., PROVIDE AT LEAST 27" OF KNEE CLEARANCE, AND CONFORM WITH THE FOLLOWING INSTALLATION SPECIFICATIONS:



CONTROL AND OPERATING MECHANISMS

CONTROL AND OPERATING MECHANISMS LOCATED IN COMMON USE AREAS SHALL HAVE THE FOLLOWING PROPERTIES:

- CONTROLS SUCH AS THERMOSTATS, ELECTRICAL AND COMMUNICATION RECEPTACLES, ALARM KEYPADS, ACCESS CARD READERS, ETC. SHALL BE LOCATED SUCH THAT CLEAR FLOOR SPACE COMPLYING WITH 4.2.4 IS PROVIDED (I.E. FORWARD OR SIDE APPROACH USE). CONTROLS AND OPERATING MECHANISMS LOCATED IN ALCOVES DEEPER THAN 24" REQUIRE ADDITIONAL MANEUVERING AREA (SEE TAS FIGURE 40D AND 40E).
- THE HIGHEST OPERABLE PART OF CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6. ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 IN ABOVE THE FLOOR TO THE BOTTOM OF THE DEVICE. EXCEPTION: THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT INDICATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATION SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ELECTRICALLY CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N).



HANDRAILS AND GRAB BARS

- ALL HANDRAILS, TOILETBATHING ROOM GRAB BARS, AND TUB AND SHOWER SEATS REQUIRED TO BE ACCESSIBLE SHALL COMPLY WITH THE SPECIFICATIONS THIS SECTION.
- THE NOMINAL DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1 1/4 INCHES TO 1 1/2 INCHES, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES (SEE FIG. 39A, 39B, 39C, AND 39D). HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3 INCHES DEEP AND EXTENDS AT LEAST 18 INCHES ABOVE THE TOP OF THE RAIL (SEE FIG. 39D).
- THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATION:
(1) BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
(2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR AND SEAT OR THE FASTENER OR MOUNTING DEVICE IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALLED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
(3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
(4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.
(5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

- A HANDRAIL OR GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 18 INCHES.

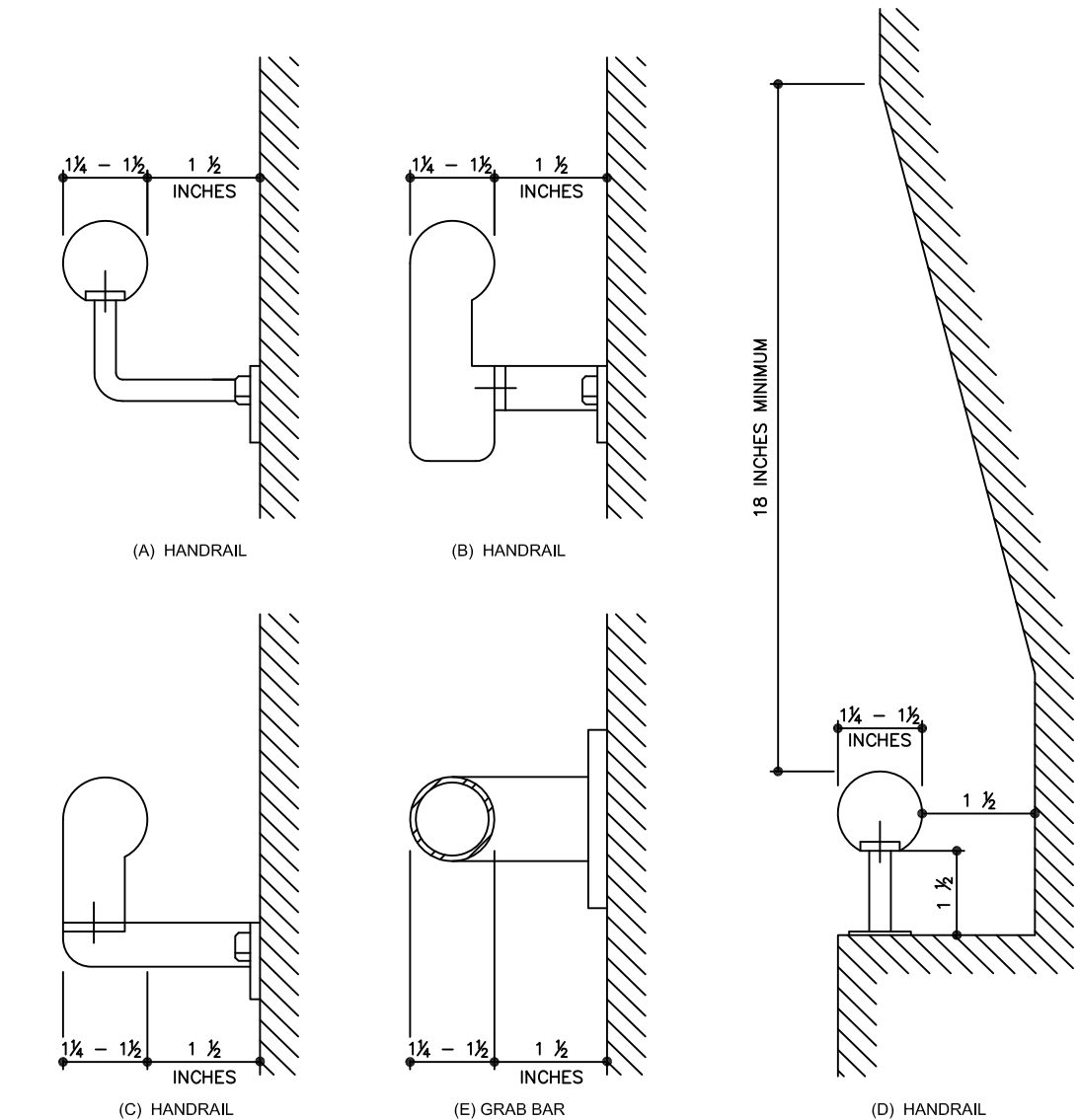


FIGURE 39
NOMINAL SIZE AND SPACING OF HANDRAILS AND GRAB BARS

BUILDING SIGNAGE

- SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES SHALL HAVE THE FOLLOWING PROPERTIES:
(1) LETTERS AND NUMERALS SHALL BE RAISED 1/32 INCH, UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 1/8 INCHES FLAT, BUT NO HIGHER THAN 3 INCHES. PICTOGRAMS SHALL BE ACCOMPANIED WITH THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT (SEE FIG. 43).

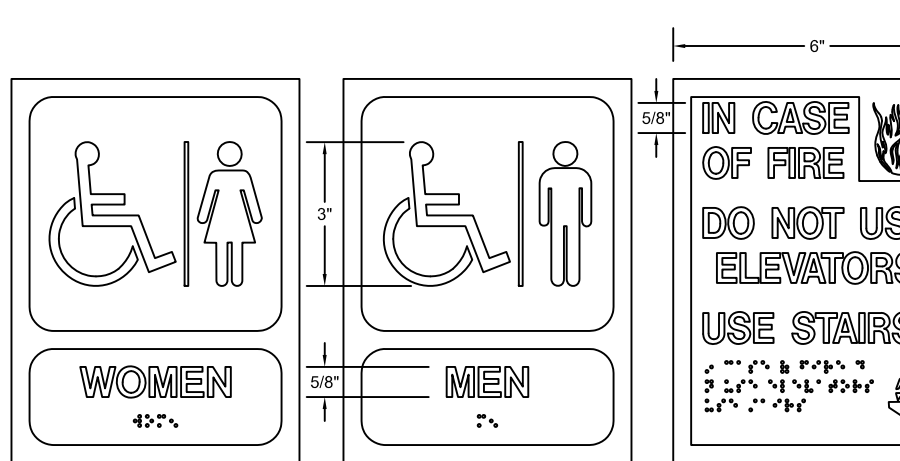


FIG. 43
SIGNAGE SPECIFICATIONS

- THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL MATTE, OR OTHER NON-GLOSS FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

- WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (SEE FIG. 43E).

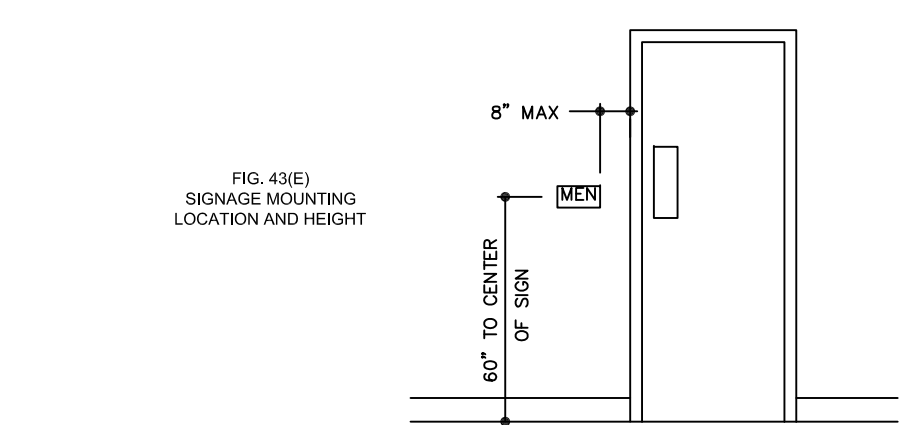


FIG. 43(E)
SIGNAGE MOUNTING LOCATION AND HEIGHT

- SIGNS PROVIDING DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL HAVE THE FOLLOWING PROPERTIES:

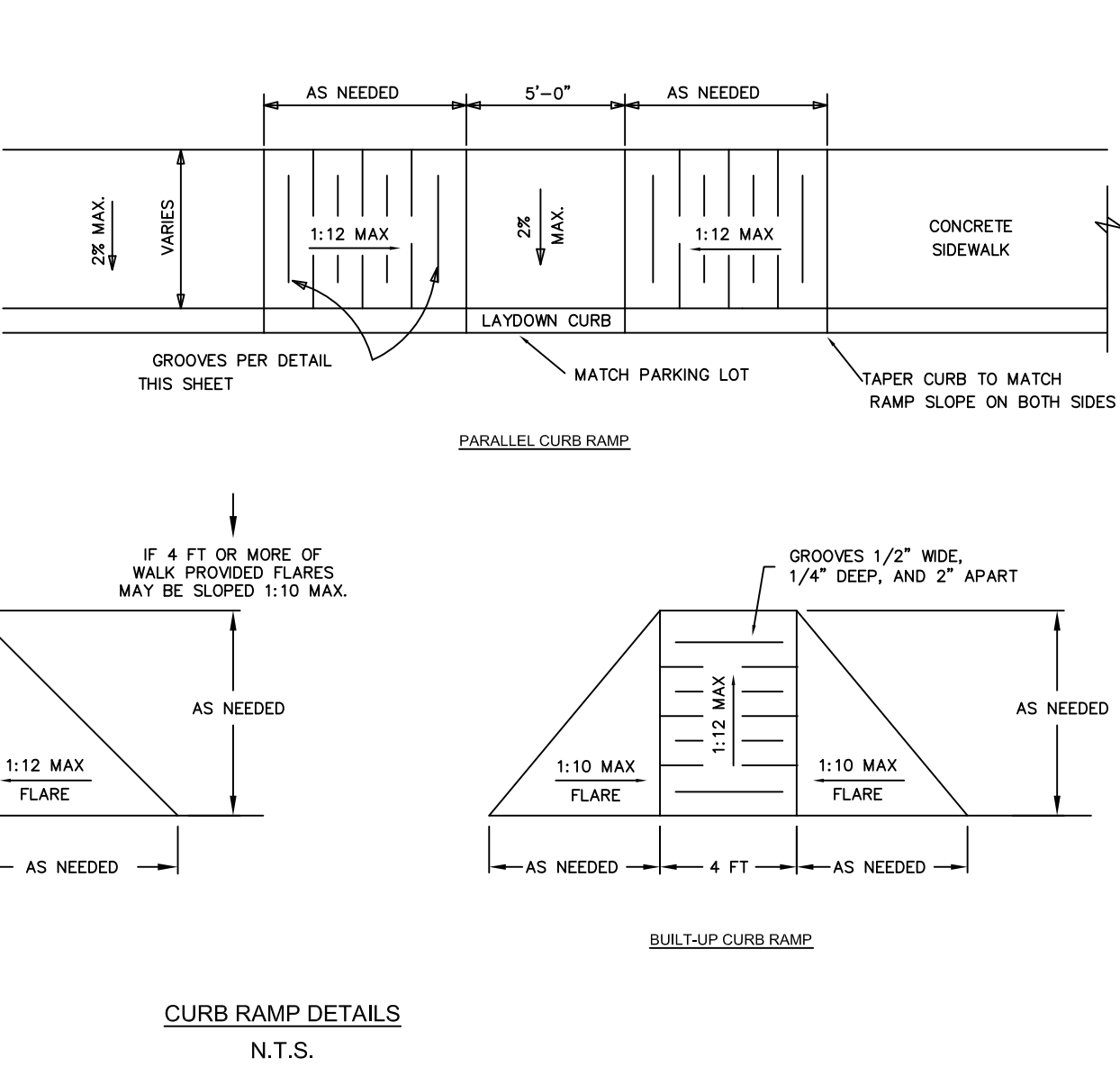
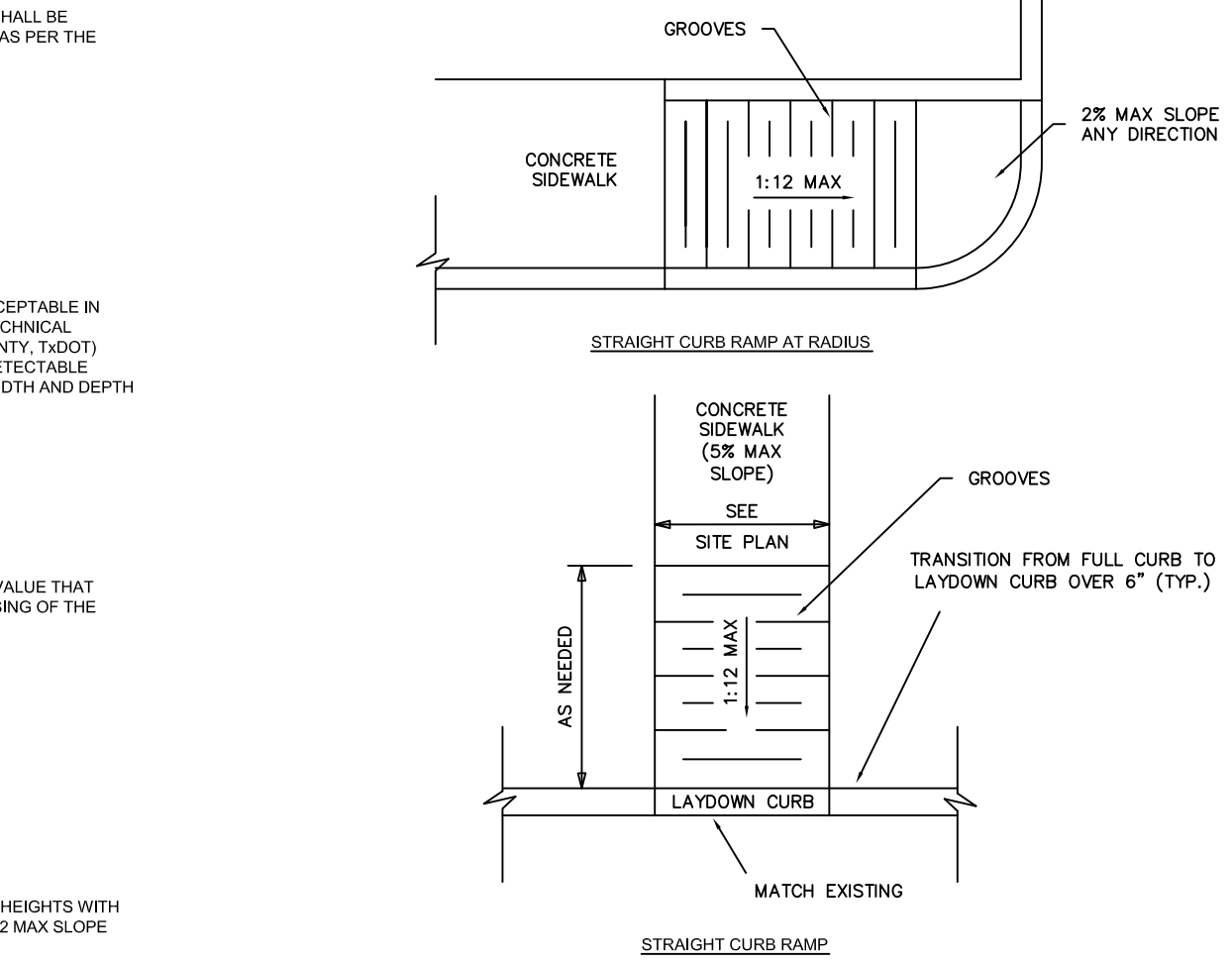
- LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10 USING AN UPPER-CASE "X" FOR MEASUREMENT. LOWER CASE LETTERS ARE PERMITTED.
- THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL MATTE, OR OTHER NON-GLOSS FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

MOUNTING HEIGHTS FOR ADULTS AND CHILDREN			
	AGES: 4 THRU 10 OR 11 GRADES: PRE-K-4 THRU 5 OR 6	AGES: 11 THRU 14 OR 15 GRADES: 6 THRU 8 OR 9	AGES: 15 THRU ADULT GRADES: 9 THRU 12+
REACH RANGES			
FRONTAL APPROACH	42" MAX.	45" MAX.	48" MAX.
SIDE APPROACH	48" MAX.	51" MAX.	54" MAX.
RAMPS AND STAIRS			
TOP OF HANDRAIL GRIPPING SURFACE	28" - 34"	30" - 34"	34" - 38"
ELEVATORS			
CAR CONTROL FLOOR BUTTONS:			
FRONTAL APPROACH	42" MAX.	45" MAX.	48" MAX.
SIDE APPROACH	48" MAX.	51" MAX.	54" MAX.
EMERGENCY COMMUNICATION:			
HIGHEST OPERABLE PART	42" MAX.	45" MAX.	48" MAX.
PLATFORM LIFTS (WHEELCHAIR LIFTS) ¹			
CONTROL/OPERATING MECHANISMS	28" - 42"	28" - 45"	28" - 48"
DRINKING FOUNTAINS AND WATER COOLERS			
FRONTAL APPROACH:			
SPOUT HEIGHT (TO OUTLET)	32" MAX.	34" MAX.	36" MAX.
KNEE CLEARANCE	26" MIN.	27" MIN.	27" MIN.
SIDE APPROACH:			
SPOUT HEIGHT (TO OUTLET)	32" MAX.	34" MAX.	36" MAX.
WATER CLOSETS			
TOP OF SEAT ²	14" - 15"	15" - 17"	17" - 19"
GRAB BARS	28" - 30"	30" - 32"	33" - 36"
FLUSH CONTROLS	42" MAX.	44" MAX.	44" MAX.
URINALS			
RIM OF BASIN	14" MAX.	16" MAX.	17" MAX.
FLUSH CONTROLS	42" MAX.	44" MAX.	44" MAX.
LAVATORIES AND SINKS			
RIM AND COUNTER SURFACE	30" MAX.	32" MAX.	34" MAX.
KNEE CLEARANCE	26" MIN.	27" MIN.	27" MIN.
TO FAUCETS FROM FRONT EDGE	18" MAX.	20" MAX.	20" MAX.
MIRRORS			
TO BOTTOM OF REFLECTIVE SURFACE	34" MAX.	37" MAX.	40" MAX.

¹ WHEN PERMITTED UNDER EXCEPTION 4, SECTION 4.1.3(5).
² IN FACILITIES SERVING CHILDREN UNDER THE AGE OF FOUR, WATER CLOSET SEAT HEIGHTS MAY BE LOWER THAN 14" BUT NOT HIGHER THAN 15".

CONCRETE CURB RAMPS (STANDARD & PARALLEL)

- FULL WIDTH AND DEPTH OF CONCRETE CURB RAMP SURFACES (EXCLUDES FLARES) SHALL BE BROOM FINISHED WITH GROOVES PLACED PERPENDICULAR TO THE PATH OF TRAVEL AS PER THE FOLLOWING DETAIL:
- THE USE OF GROOVES IS ARRANGED SO THAT WATER WILL NOT ACCUMULATE. IS ACCEPTABLE IN TEXAS PROVIDED THE GROOVED SURFACE IS DETECTABLE UNDERFOOT PER TOUR TECHNICAL MEMORANDUM NO. TM 99-15. IF THE AUTHORITY HAVING JURISDICTION (I.E. CITY, COUNTY, TDDOT) REQUIRES THE USE OF TRUNCATED DOMES INSTEAD OF GROOVES, CAST IN-PLACE DETECTABLE WARNING TILES FROM ARMOR-TILE (OR EQUIVALENT) SHALL BE USED ON THE FULL WIDTH AND DEPTH OF THE RAMP SURFACE. PRODUCT INFORMATION SHEETS MAY BE OBTAINED FROM:
ARMOR-TILE ENGINEERED PLASTICS, INC.
300 INTERNATIONAL DRIVE, STE 100
WILLIAMSVILLE, NY 14221
(800) 685-2202 FAX: (800) 709-4463
WWW.ARMOR-TILE.COM
- FULL WIDTH AND DEPTH OF CURB RAMP SURFACES SHALL HAVE A LIGHT REFLECTIVE VALUE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF THE ADJACENT PEDESTRIAN ROUTES BY USING OF THE FOLLOWING METHODS (GROOVED RAMP SURFACES ONLY):
A) INTEGRAL COLORED CONCRETE MAX
B) DRY SHOWER COLOR PLACED AND TROWELED INTO FRESHLY POURED CONCRETE PER MANUFACTURER'S SPECIFICATIONS
C) CONCRETE STAIN APPLIED PER MANUFACTURER'S SPECIFICATIONS
NOTE 1: COLOR TO BE SELECTED BY OWNER OR DESIGN PROFESSIONAL.
NOTE 2: COLOR ON FLARED SURFACES ARE OPTIONAL (NOT REQUIRED).
NOTE 3: ARMOR-TILE DETECTABLE WARNING SURFACES ALREADY COME IN A VARIETY OF CONTRASTING COLORS TO BE SELECTED BY OWNER OR DESIGN PROFESSIONAL.
- RAMP SURFACE DIMENSIONS SHOWN CORRESPOND ONLY TO STANDARD 6 INCH CURB HEIGHTS WITH SAID RAMP LOCATED ENTIRELY WITHIN AN AREA THAT IS FLAT IN ALL DIRECTIONS - 1:12 MAX SLOPE SHALL GOVERN FOR ALL CURB RAMP SURFACES.

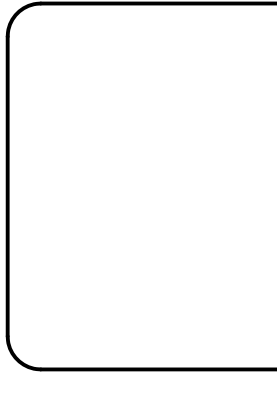
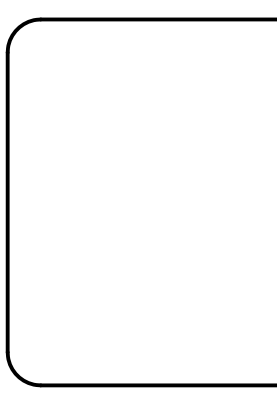


CURB RAMP DETAILS
N.T.S.

REVISIONS:	
DATE	BY

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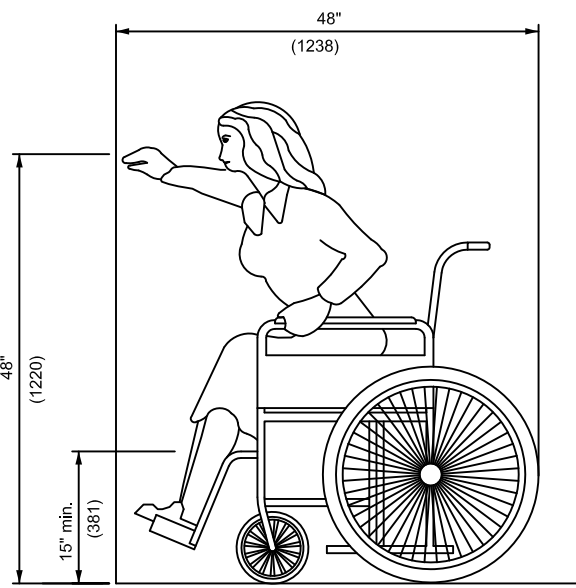


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02
MAY 28, 2010

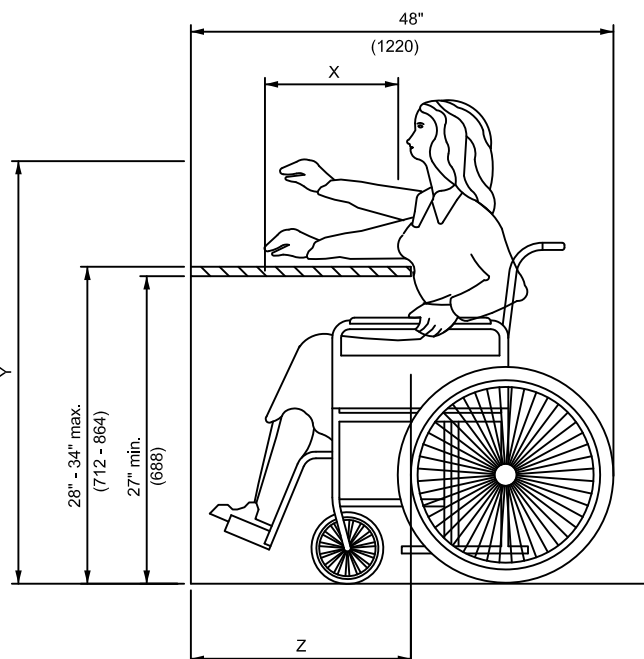
THE SPECIFICATIONS ON THIS SHEET SHALL BE USED AS APPLICABLE UNLESS SPECIFICALLY NOTED ELSEWHERE

REACH RANGES

1. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48 IN (1220 MM) AS SHOWN:

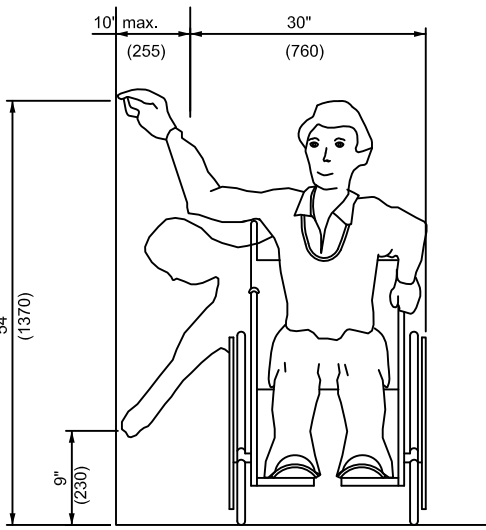


2. THE MINIMUM LOW FORWARD REACH IS 15 IN (381 MM). IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION, REACH AND CLEARANCES SHALL BE AS SHOWN:

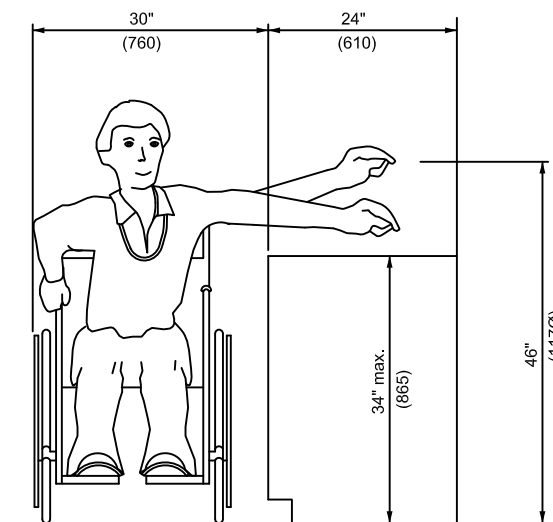


NOTE: X SHALL BE \geq 25 IN (635 MM); Z SHALL BE \geq X. WHEN $X < 20$ IN (510 MM), THEN Y SHALL BE 48 IN (1220 MM) MAXIMUM. WHEN X IS 20 TO 25 IN (510 TO 635 MM), THEN Y SHALL BE 44 IN (1120 MM) MAXIMUM.

3. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH SHALL BE 54 IN (1370 MM) AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9 IN (230 MM) ABOVE THE FLOOR AS SHOWN:

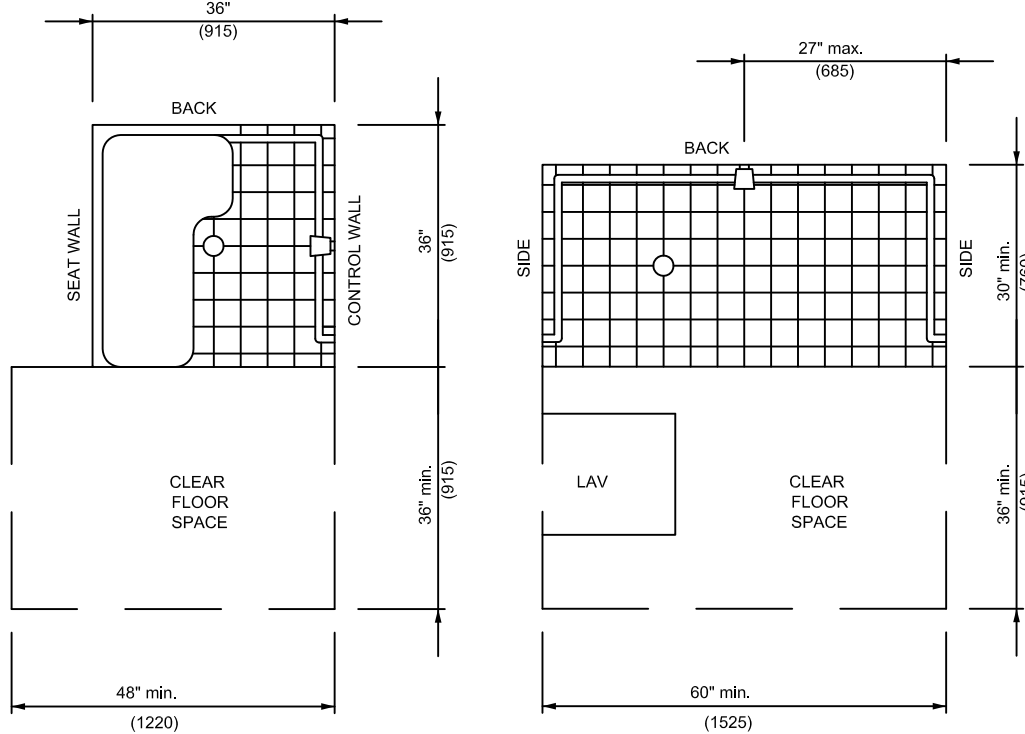


4. IF THE SIDE REACH IS OVER AN OBSTRUCTION, THE REACH AND CLEARANCES SHALL BE AS SHOWN:



SHOWER STALLS

1. SHOWER STALL SIZE AND CLEAR FLOOR SPACE SHALL COMPLY WITH THE FOLLOWING:

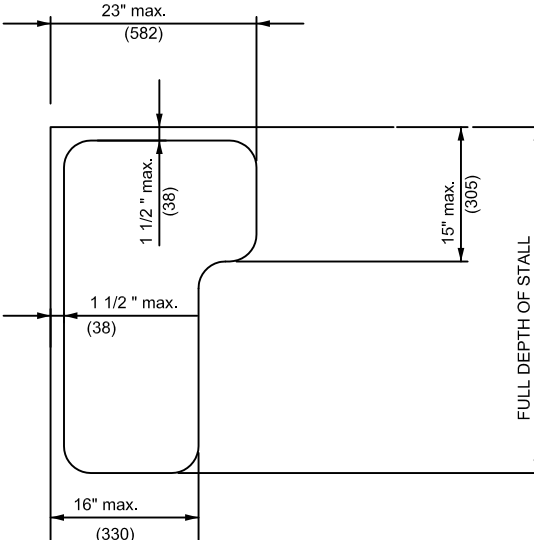


NOTE: FLOOR SURFACE IN STALL SHALL NOT SLOPE IN EXCESS OF 1:50 IN ANY DIRECTION.

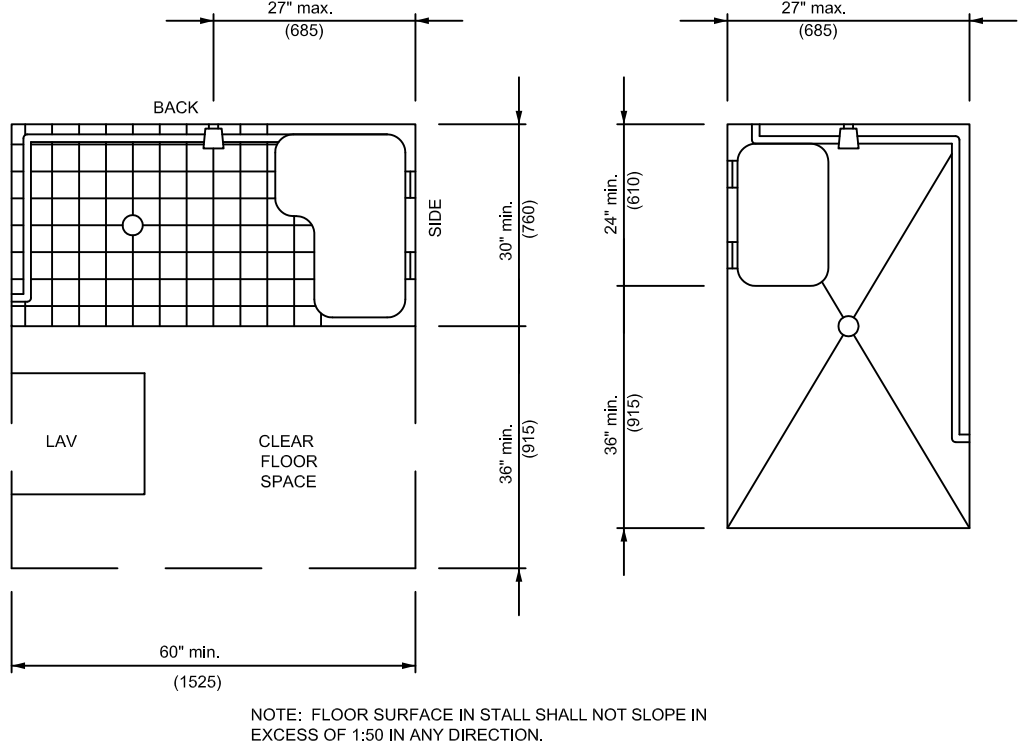
- (A) 36-IN BY 36-IN STALL (B) 30-IN BY 60-IN STALL

THE SHOWER STALL IN (A) SHALL BE 36 IN BY 36 IN (915 MM BY 915 MM). THE SHOWER STALL IN (B) SHALL FIT INTO THE SPACE REQUIRED FOR A BATHTUB.

2. A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36 IN BY 36 IN (915 MM BY 915 MM) AND SHALL BE AS FOLLOWS:



THE SEAT SHALL BE MOUNTED 17 IN TO 19 IN (430 MM TO 485 MM) FROM THE FINISHED FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. IN A 36 IN BY 36 IN (915 MM BY 915 MM) SHOWER STALL, THE SEAT SHALL BE ON THE WALL OPPOSITE THE CONTROLS, WHERE A FIXED SEAT IS PROVIDED IN A 30 IN BY 60 IN (760 MM BY 1525 MM) SHOWER STALL, IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS AS SHOWN.



NOTE: FLOOR SURFACE IN STALL SHALL NOT SLOPE IN EXCESS OF 1:50 IN ANY DIRECTION.

3. THE STRUCTURAL STRENGTH OF GRAB BARS, TUBS AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL BE PROVIDED AND SHALL MEET THE FOLLOWING SPECIFICATION:

(1) BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

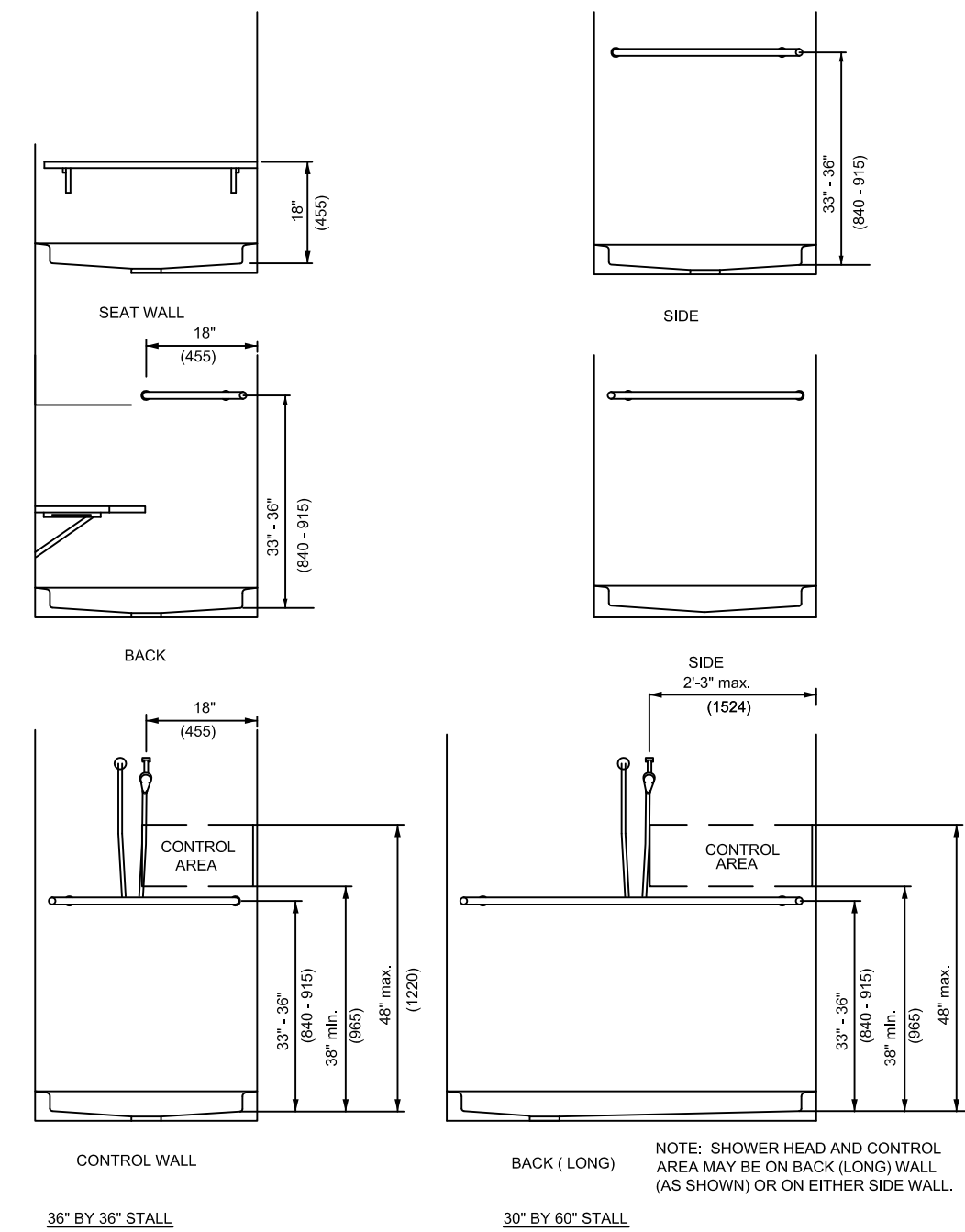
(2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICES, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

(3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICES, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

(4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.

(5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

4. FAUCETS AND OTHER CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE SHALL BE NO GREATER THAN 5 LBF (22.2N). FAUCETS AND CONTROLS SHALL BE PROVIDED AS SHOWN:



IN SHOWER STALLS 36 IN BY 36 IN (915 MM BY 915 MM), ALL CONTROLS, FAUCETS, AND THE SHOWER UNIT SHALL BE MOUNTED ON THE SIDE WALL OPPOSITE THE SEAT.

5. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60 IN (1525 MM) LONG CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. IN A 36 IN BY 36 IN (915 MM BY 915 MM) SHOWER STALL, THE MOUNTING DEVICE FOR THE HAND-HELD SHOWER HEAD SHALL COMPLY WITH THE FOLLOWING:

(1) IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48 IN (1220 MM).

(2) THE MINIMUM LOW FORWARD REACH IS 15 IN (381 MM). IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION, REACH AND CLEARANCES SHALL BE IN ACCORDANCE TO THE REACH RANGE SPECIFICATIONS.

(3) IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH SHALL BE 54 IN (1370 MM) AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9 IN (230 MM) ABOVE THE FLOOR.

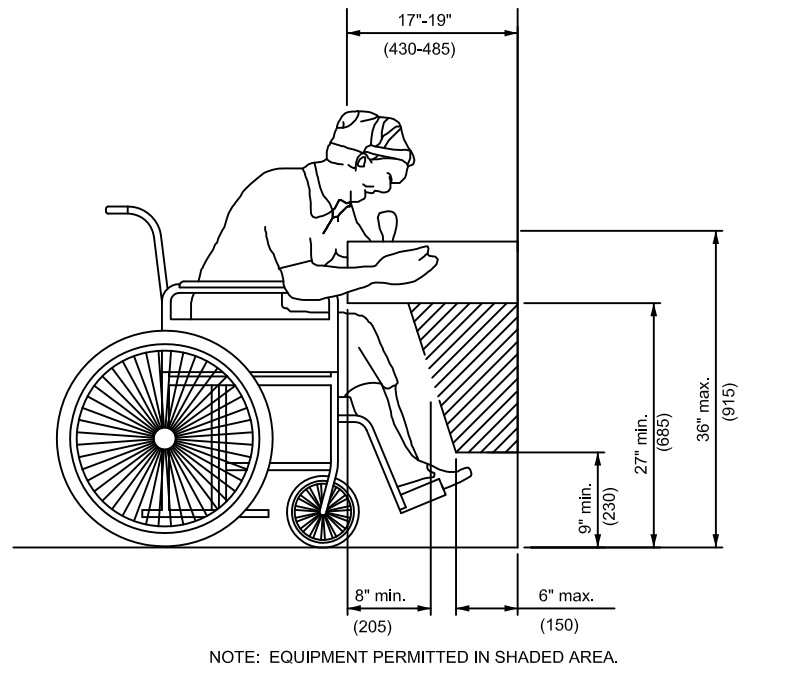
(4) IF THE SIDE REACH IS OVER AN OBSTRUCTION, THE REACH AND CLEARANCES SHALL BE IN ACCORDANCE TO THE REACH RANGE SPECIFICATIONS.

6. IF PROVIDED, CURBS IN SHOWER STALLS 36 IN BY 36 IN (915 MM BY 915 MM) SHALL BE NO HIGHER THAN 12 IN (305 MM). SHOWER STALLS THAT ARE 30 IN BY 60 IN (760 MM BY 1525 MM) MINIMUM SHALL NOT HAVE CURBS.

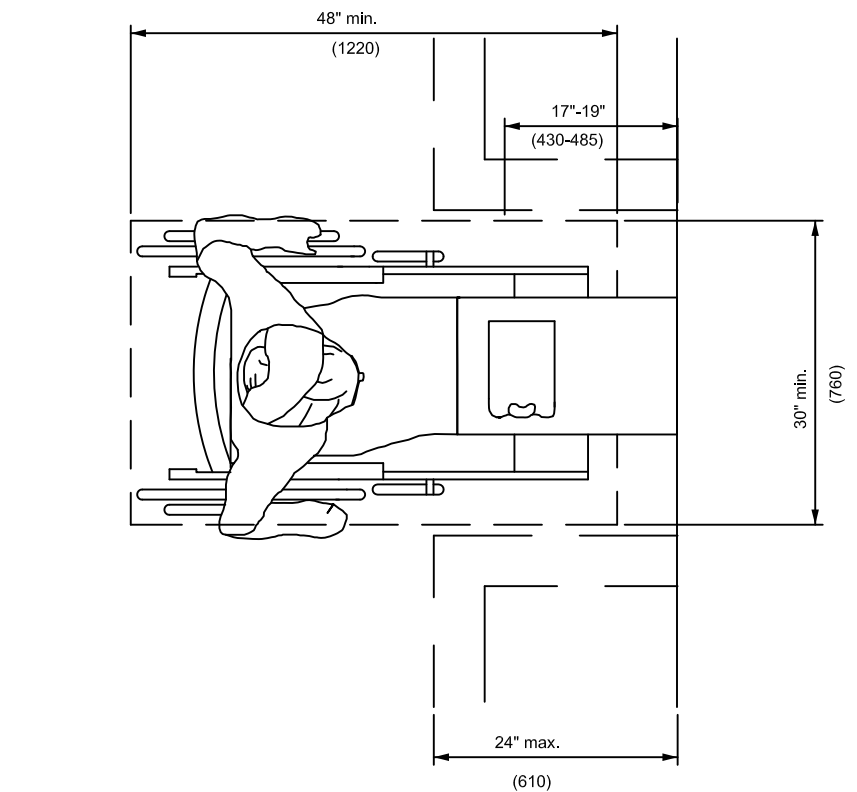
7. IF PROVIDED, ENCLOSURES FOR SHOWER STALLS SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

DRINKING FOUNTAINS AND WATER COOLERS

1. SPOUTS SHALL BE NO HIGHER THAN 36 IN (915 MM), MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
2. THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF UNIT AND SHALL DIRECT WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT.
3. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 IN (100 MM) HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUND OR OVAL BOWL, AND ON AN ACCESSIBLE DRINKING FOUNTAIN PROVIDING ONLY A PARALLEL APPROACH, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3 IN (75 MM) OF THE FRONT EDGE OF THE FOUNTAIN.
4. THE CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2N).
5. WALL- AND POST-MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27 IN (685 MM) HIGH, 30 IN (760 MM) WIDE, AND 17 IN TO 19 IN (430 MM TO 485 MM) DEEP, AS SHOWN BELOW.

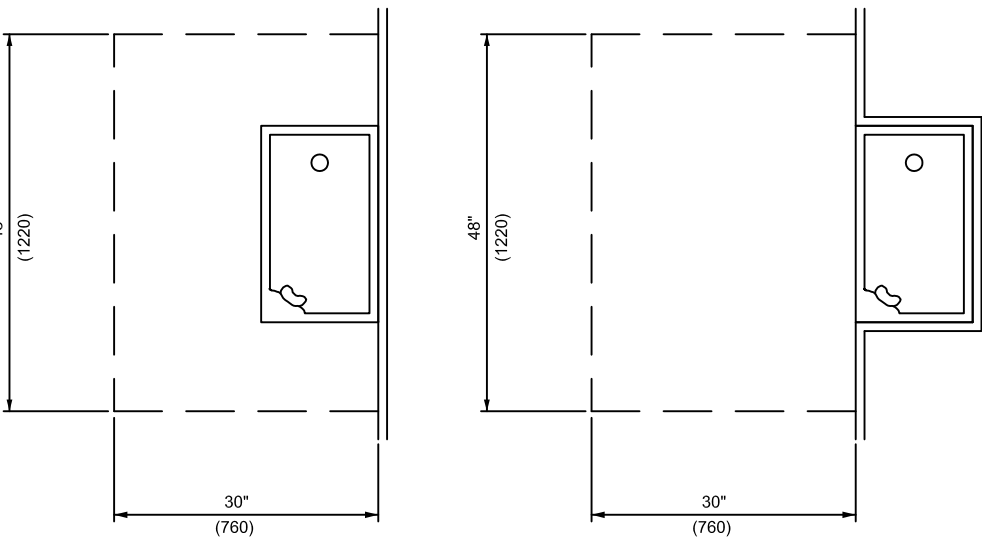


NOTE: EQUIPMENT PERMITTED IN SHADED AREA



SUCH UNITS SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE AT LEAST 30 IN BY 48 IN (760 MM BY 1220 MM) TO ALLOW A PERSON IN A WHEELCHAIR TO APPROACH THE UNIT FACING FORWARD.

6. FREE-STANDING OR BUILT-IN UNITS NOT HAVING A CLEAR SPACE UNDER THEM HAVE A CLEAR FLOOR SPACE AT LEAST 30 IN BY 48 IN (760 MM BY 1220 MM) THAT ALLOWS A PERSON IN A WHEELCHAIR TO MAKE A PARALLEL APPROACH TO THE UNIT AS SHOWN BELOW:



PARKING AND PASSENGER LOADING ZONES

1. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 96 IN (2440 MM) WIDE. PARKING ACCESSIBLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.
2. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM THE PUBLIC TRANSPORTATION STOP, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. THE ACCESSIBLE ROUTE SHALL, TO THE MAXIMUM EXTENT FEASIBLE, CONSIDER THE ROUTE FOR THE GENERAL PUBLIC UNLESS THAT ROUTE WOULD VIOLATE (4).
- (1) AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS, AND SPACES THAT ARE ON THE SAME SITE.
- (2) AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS AND WITH ALL ACCESSIBLE DWELLING UNITS WITHIN THE BUILDING OR FACILITY.
- (3) AN ACCESSIBLE ROUTE SHALL CONNECT AT LEAST ONE ACCESSIBLE ENTRANCE OF EACH ACCESSIBLE DWELLING UNIT.
- (4) ACCESSIBLE ROUTES SHALL BE LOCATED SO THAT USERS ARE NOT REQUIRED TO WHEEL OR WALK BEHIND PARKED VEHICLES (EXCEPT THE ONE THEY OPERATE OR IN WHICH THEY ARE A PASSENGER) OR IN TRAFFIC LANES.
3. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE (SEE FIG. 9B).

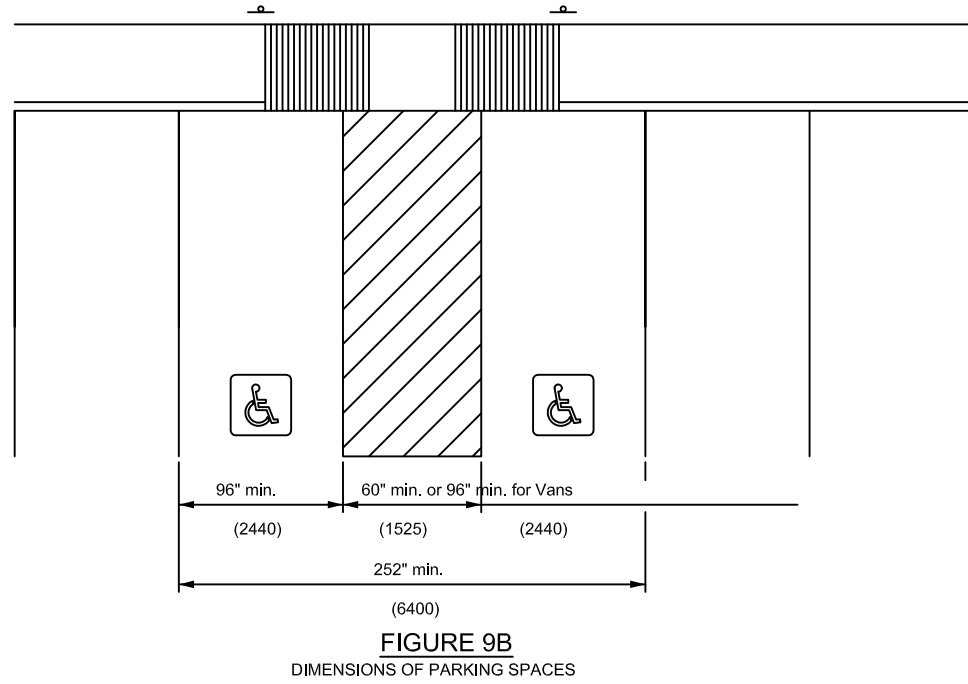


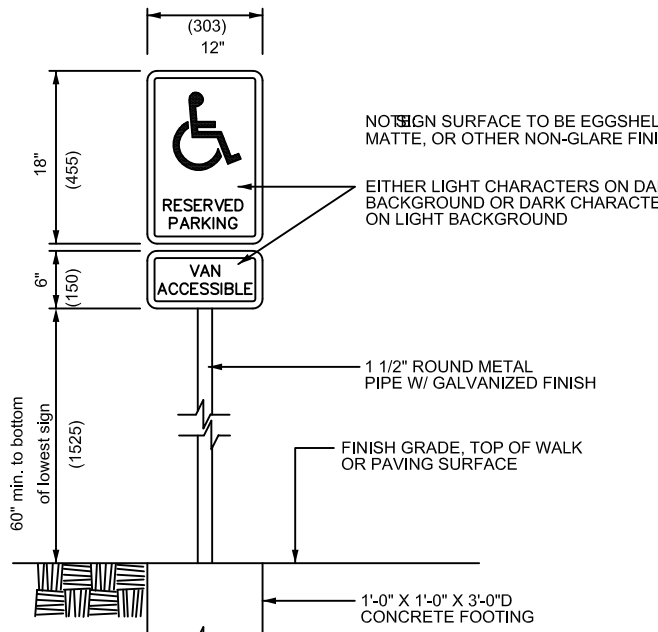
FIGURE 9B
DIMENSIONS OF PARKING SPACES

4. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
5. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
6. EACH ACCESSIBLE PARKING SPACE SHALL BE DESIGNATED AS RESERVED BY A VERTICALLY MOUNTED OR SUSPENDED SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE REF. A). SPACES COMPLYING WITH FIGURE 9B SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.



FIGURE A
INTERNATIONAL SYMBOL OF ACCESSIBILITY

- (1) CHARACTERS AND SYMBOLS ON SUCH SIGNS SHALL BE LOCATED 60 IN (1525 MM) MINIMUM ABOVE THE GROUND, FLOOR, OR PAVING SURFACE SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.



- (2) SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL HAVE 80 IN (2030 MM) CLEAR HEAD ROOM. IF VERTICAL CLEARANCE OF AN AREA ADJOINING AN ACCESSIBLE ROUTE IS REDUCED TO LESS THAN 80 IN (2030 MM), A BARRIER TO WARN BLIND OR VISUALLY IMPAIRED PERSONS SHALL BE PROVIDED.

- (3) SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL CONTAIN CHARACTERS AND NUMBERS SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. THE MINIMUM CHARACTER HEIGHT SHALL BE 3 IN (75 MM) MINIMUM. LOWER CASE CHARACTERS ARE PERMITTED.

DOOR CLEARANCES

1. THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32 IN (815 MM) AT A POINT AND 36 IN (915 MM) CONTINUOUSLY (SEE FIGURE 1).
2. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN. WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP. DOORS NOT REQUIRING FULL USE PASSAGE, SUCH AS SHALLOW CLOSETS, MAY HAVE THE CLEAR OPENING REDUCED TO 20 IN. MINIMUM.
3. MINIMUM MANEUVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER-ASSISTED SHALL BE AS SHOWN IN FIG. 26.
4. THE MINIMUM SPACE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48 IN PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. DOORS IN SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS (SEE FIG. 26).
5. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 IN IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2 IN FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

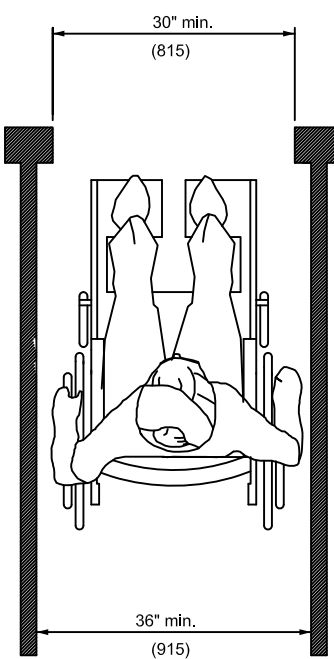
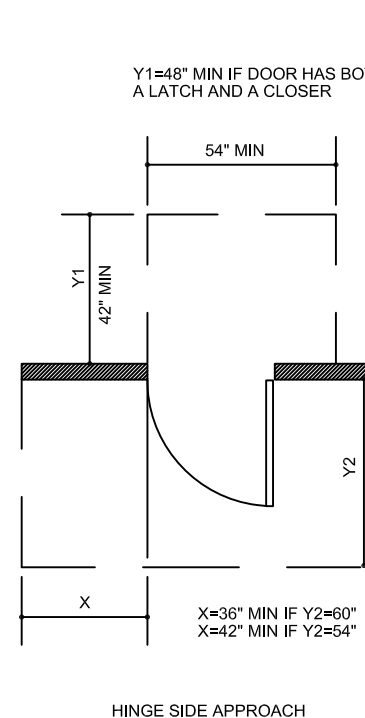
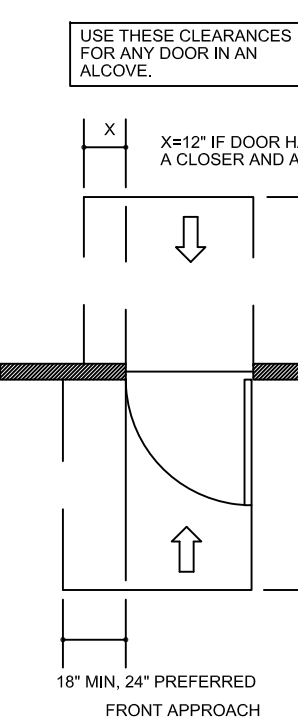
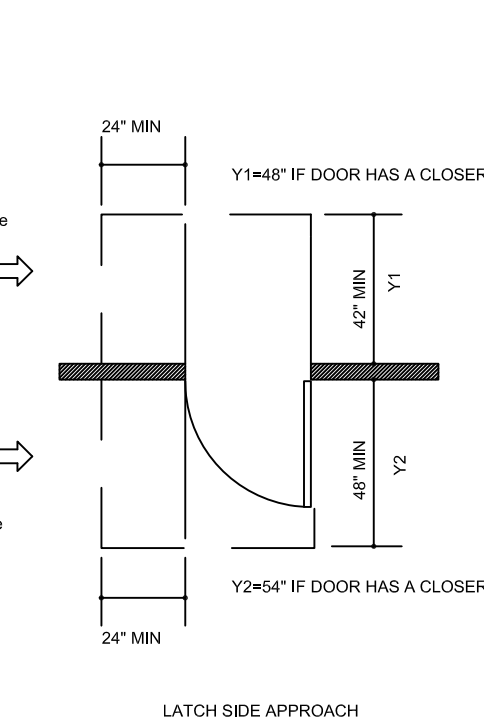


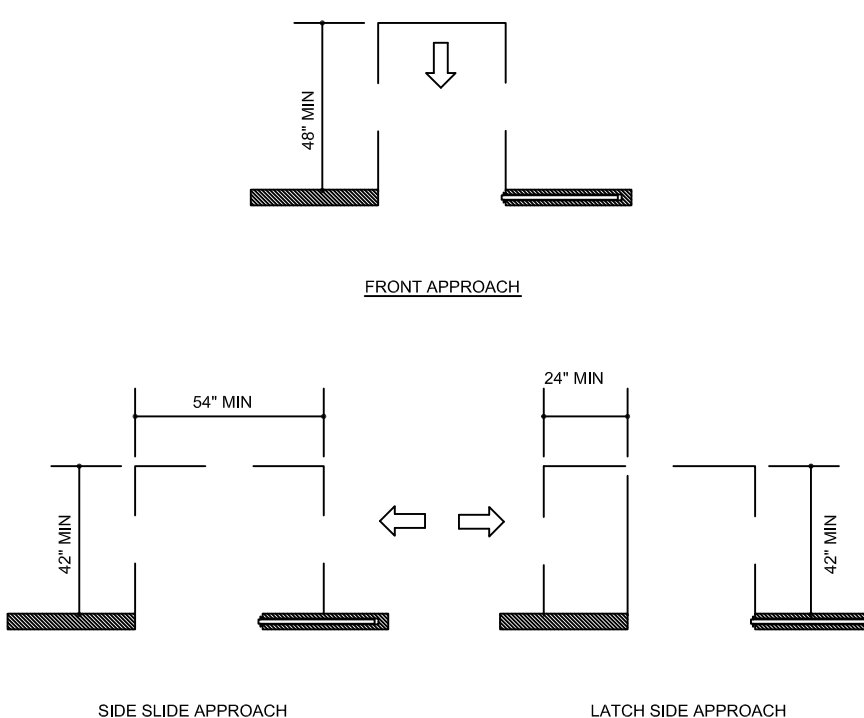
FIGURE 1
MINIMUM CLEAR WIDTH FOR
SINGLE WHEELCHAIR



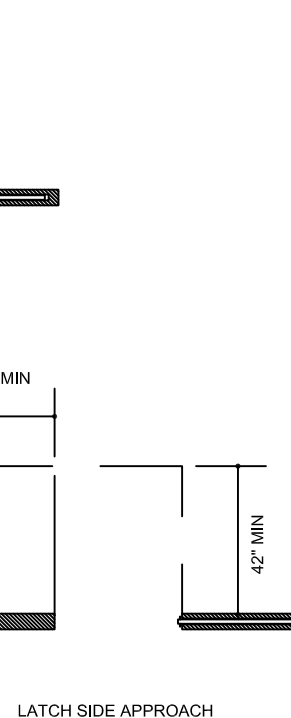
HINGE SIDE APPROACH



LATCH SIDE APPROACH



SIDE SLIDE APPROACH



LATCH SIDE APPROACH

FIGURE 26

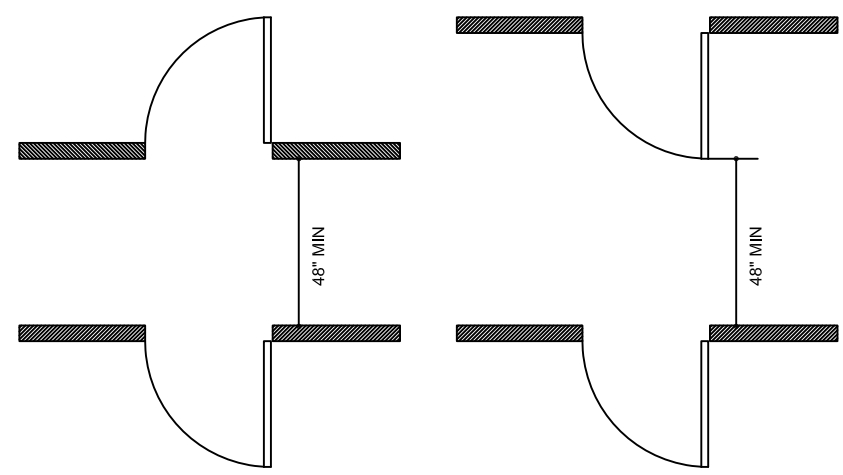


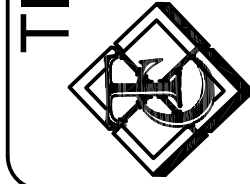
FIGURE 26
TWO HINGED DOORS IN SERIES

TAS SPECIFICATIONS

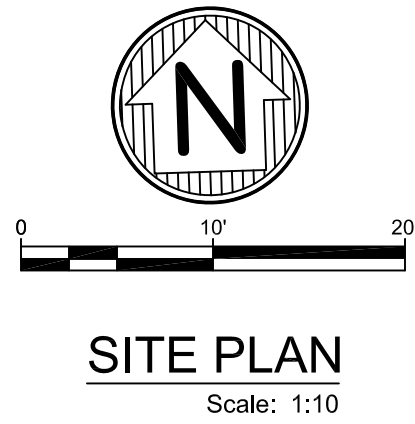
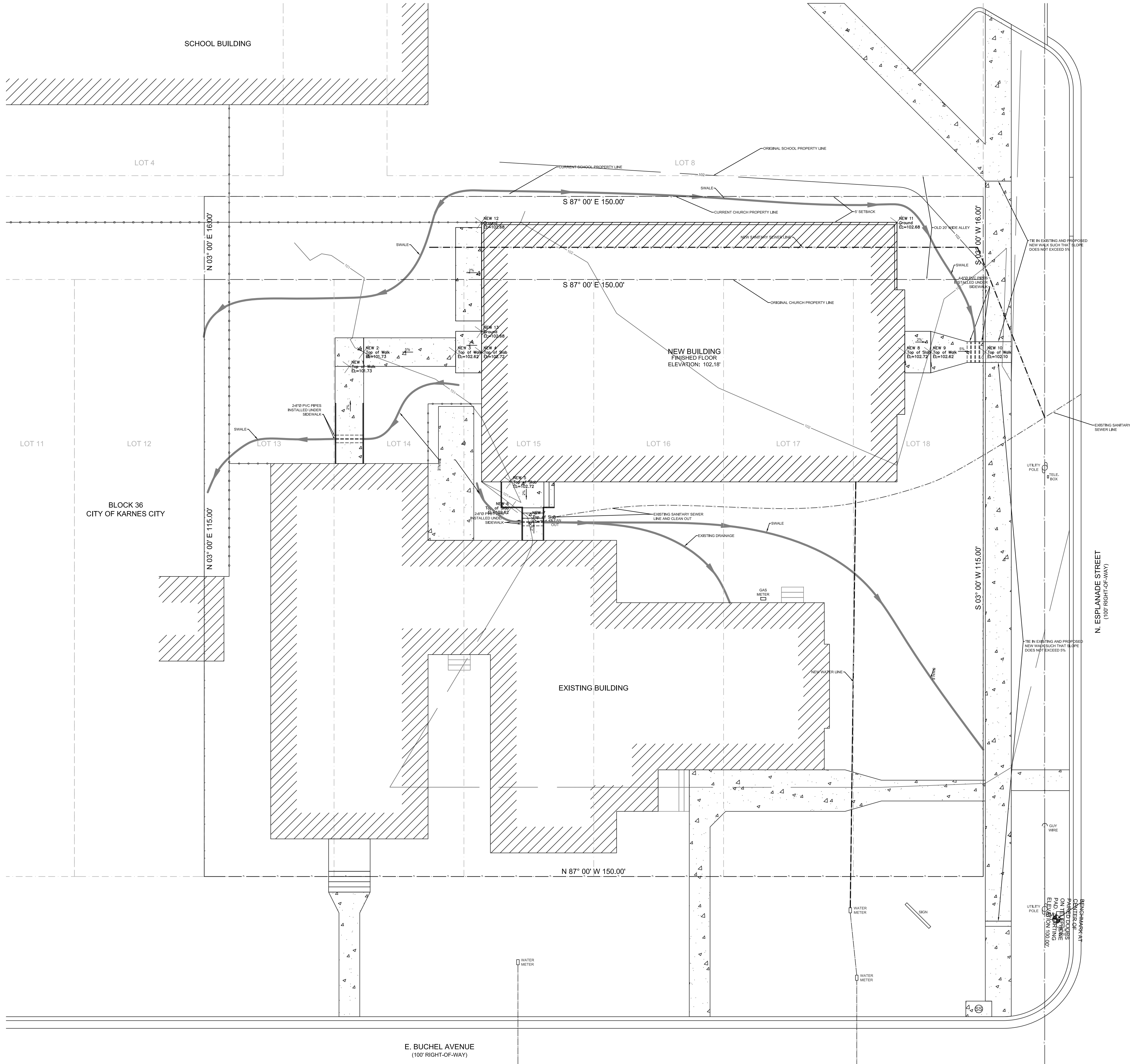
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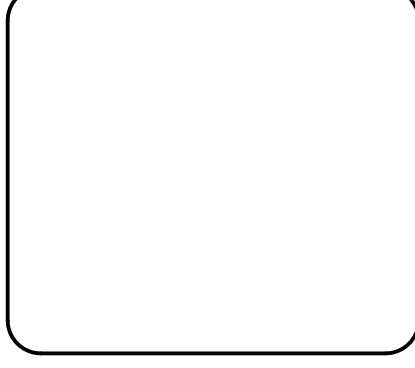
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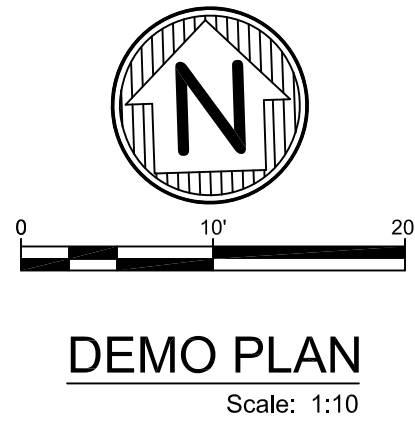
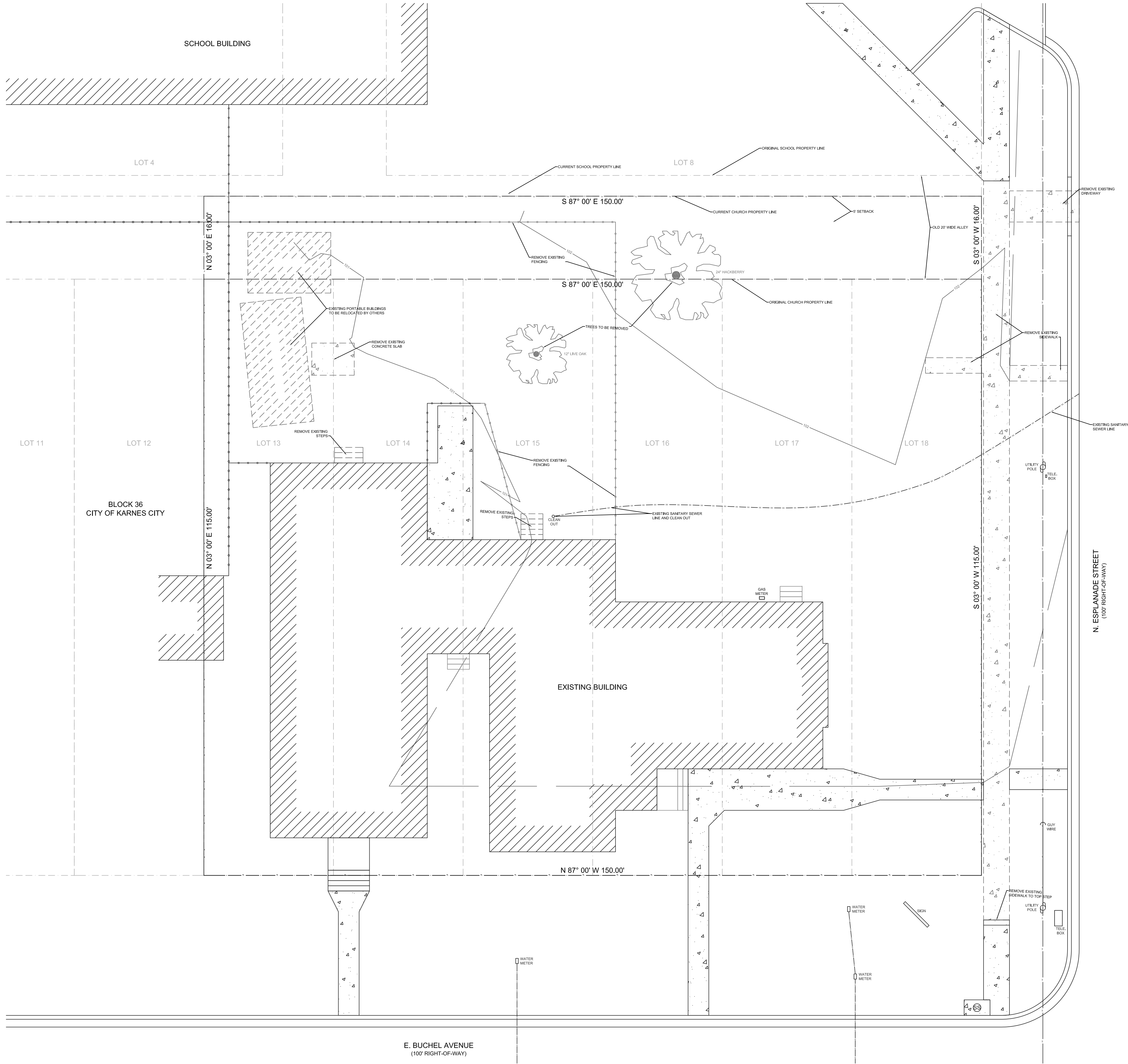
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C1
 MAY 28, 2010

SITE GRADING AND UTILITY PLAN



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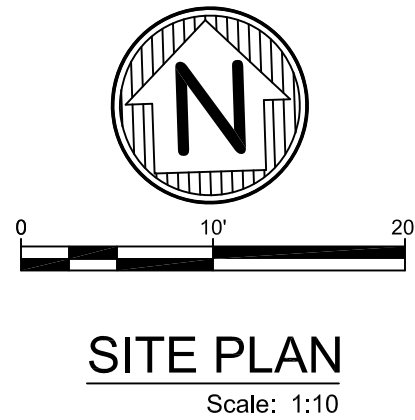
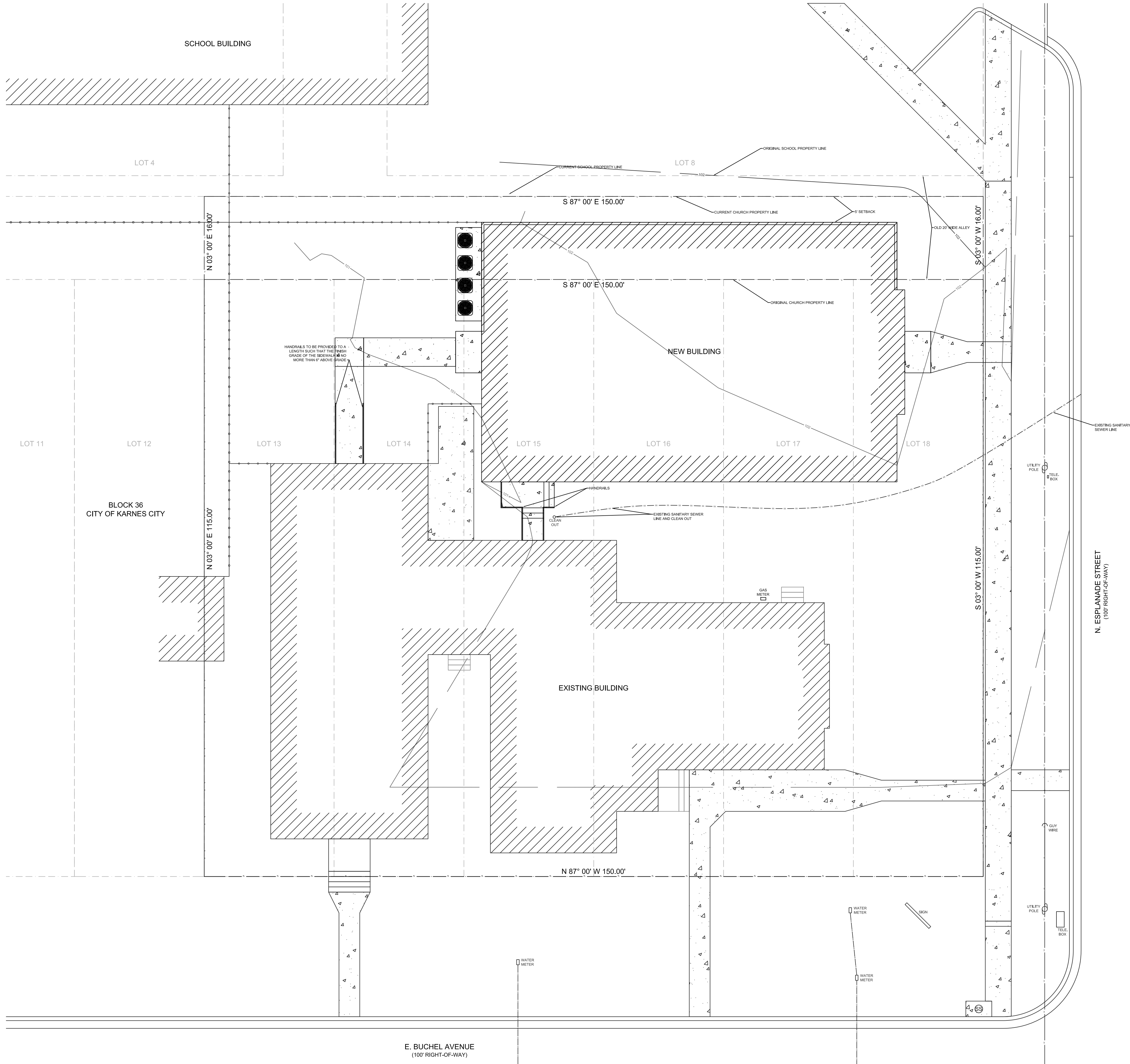
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SHEET NUMBER
D1
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DEMO PLAN



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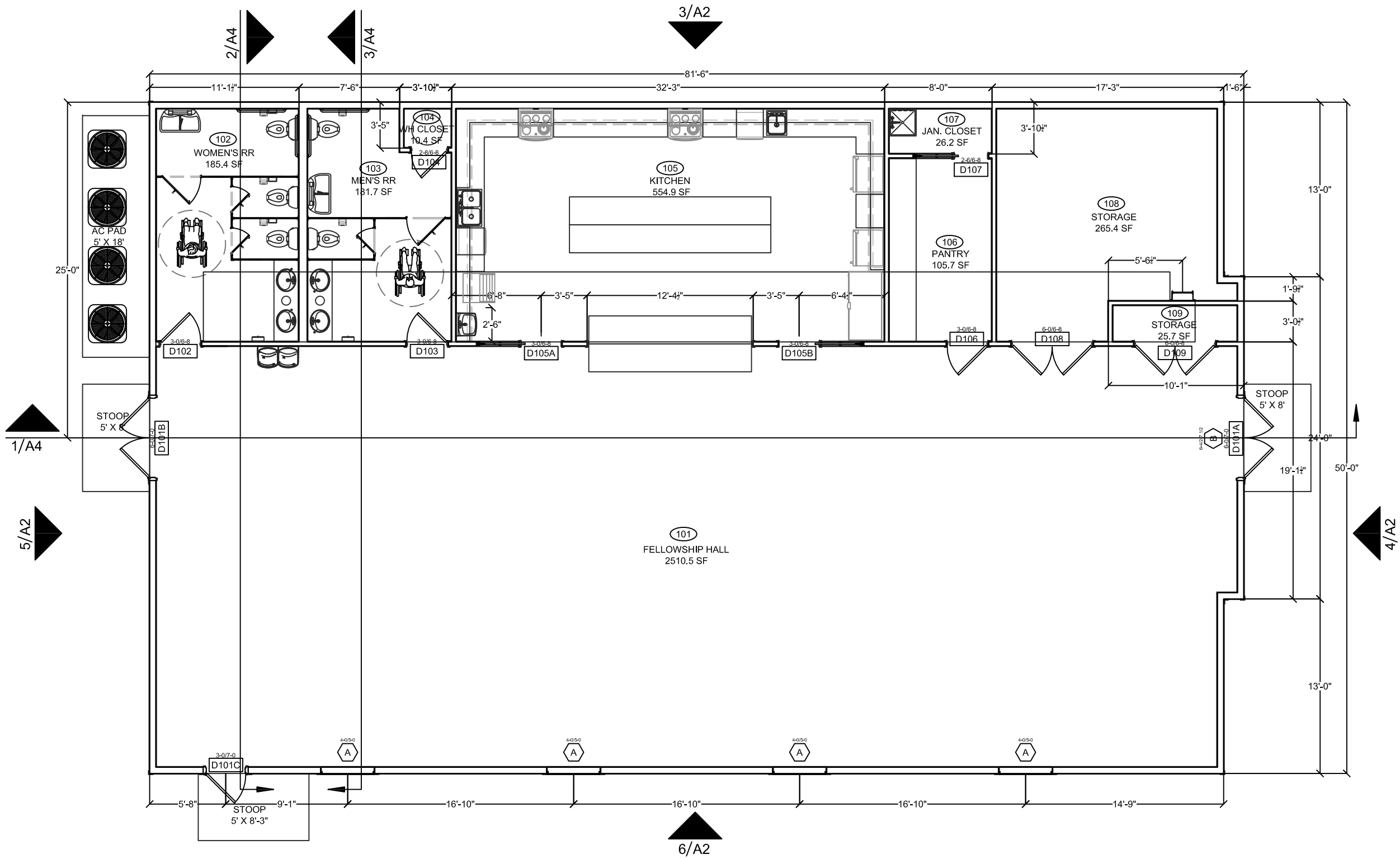
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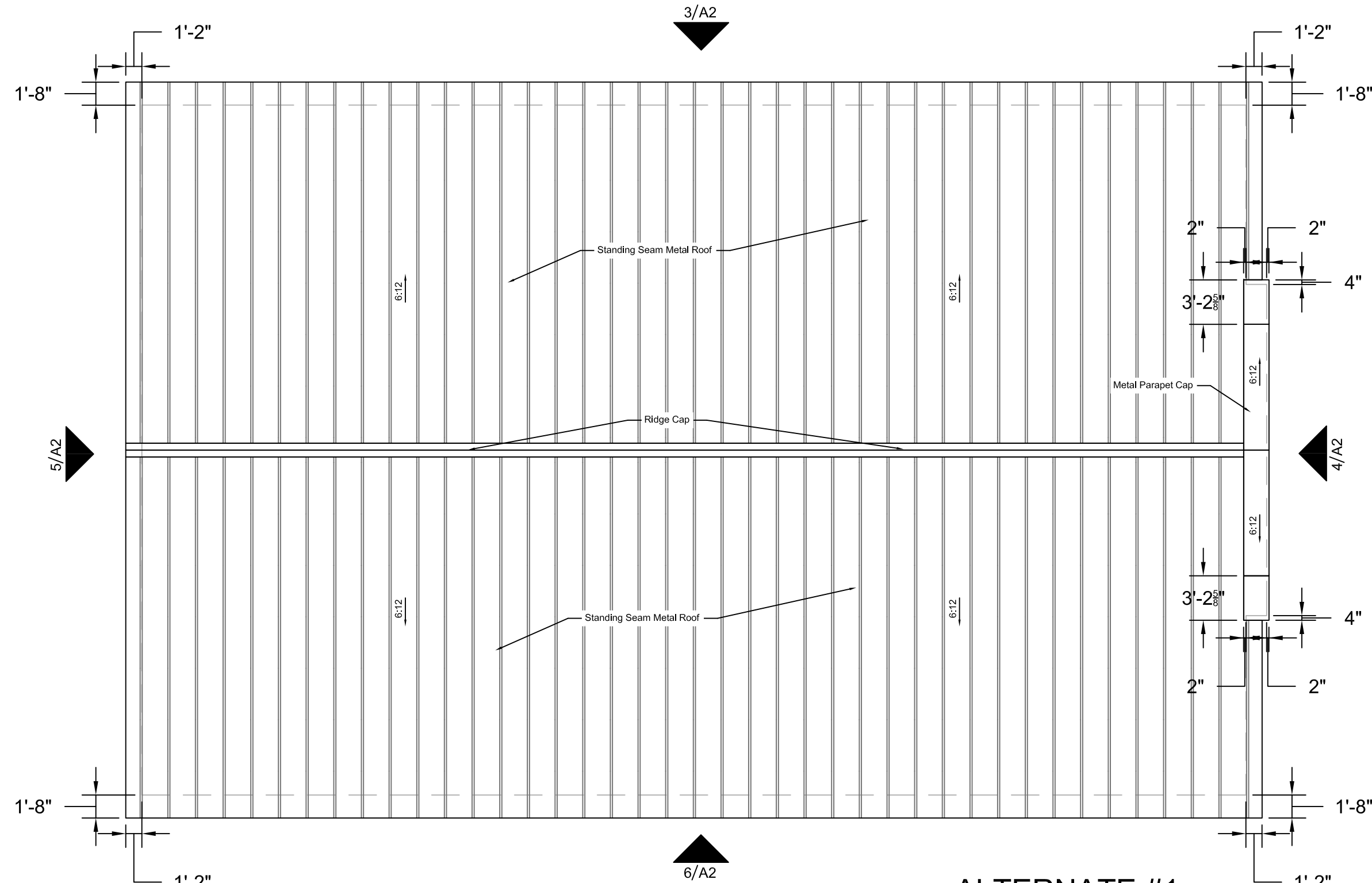
SHEET NUMBER
SP1
 MAY 28, 2010

SITE PLAN

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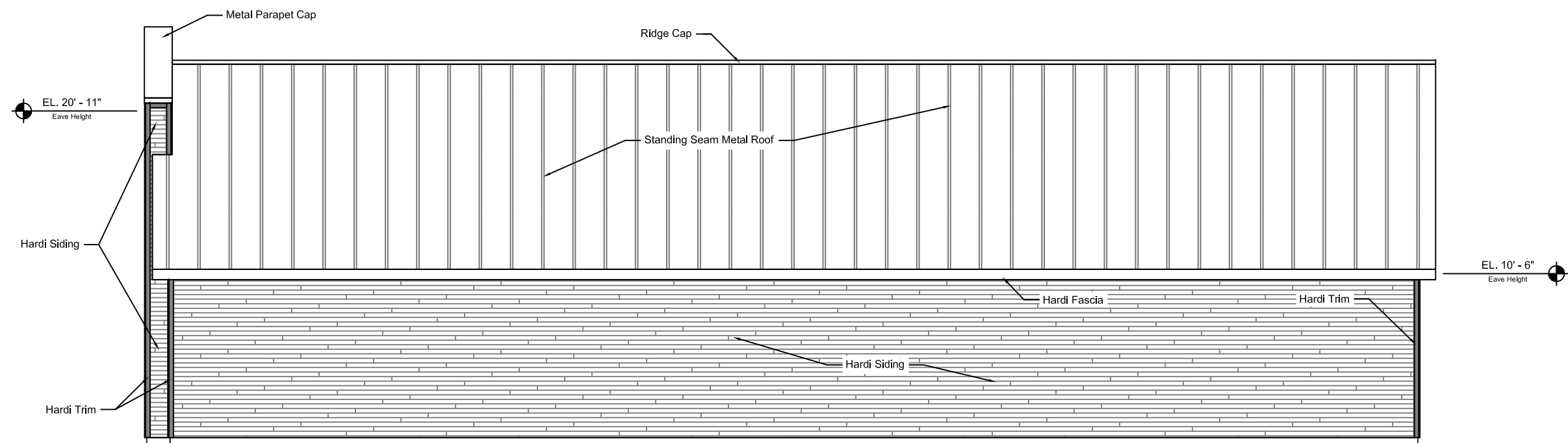


FLOOR PLAN
Scale: 1/8" = 1'

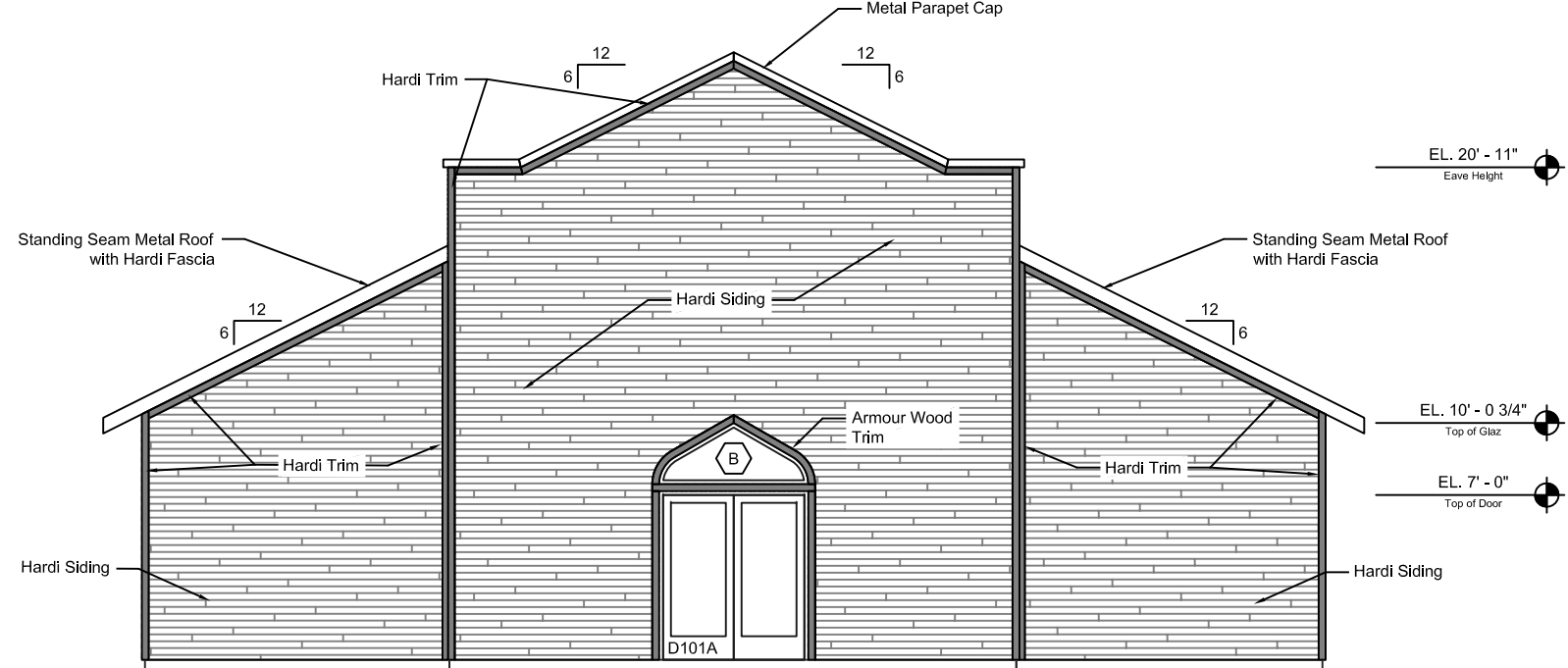


ROOF PLAN
Scale: 1/8" = 1'

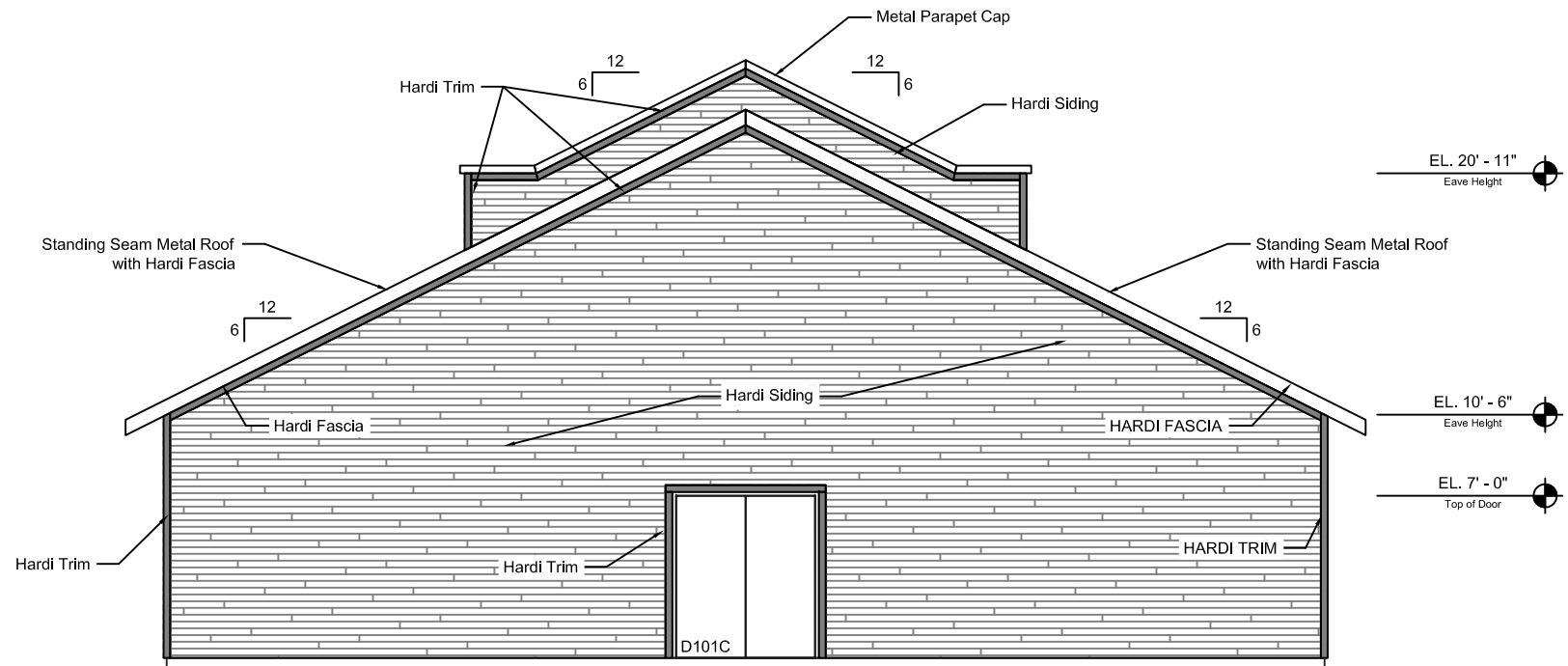
ALTERNATE #1 -
COMPOSITION ROOF IN
LIEU OF STANDING SEAM



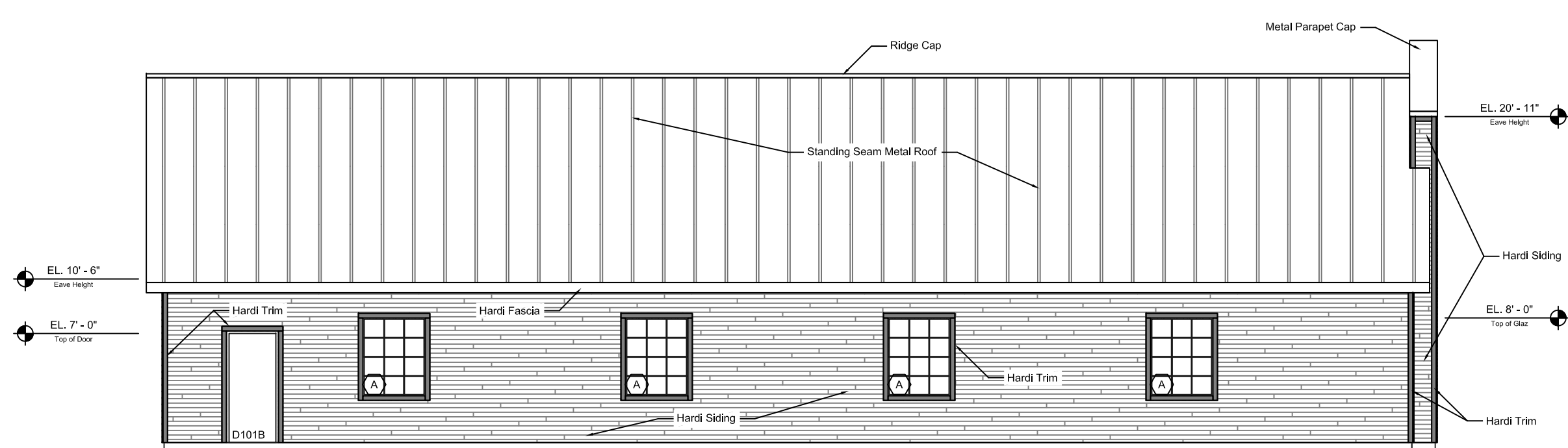
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Scale: 1/8" = 1'



2 EAST ELEVATION
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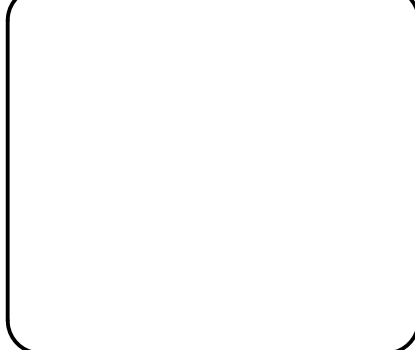


4 SOUTH ELEVATION
Scale: 1/8" = 1'

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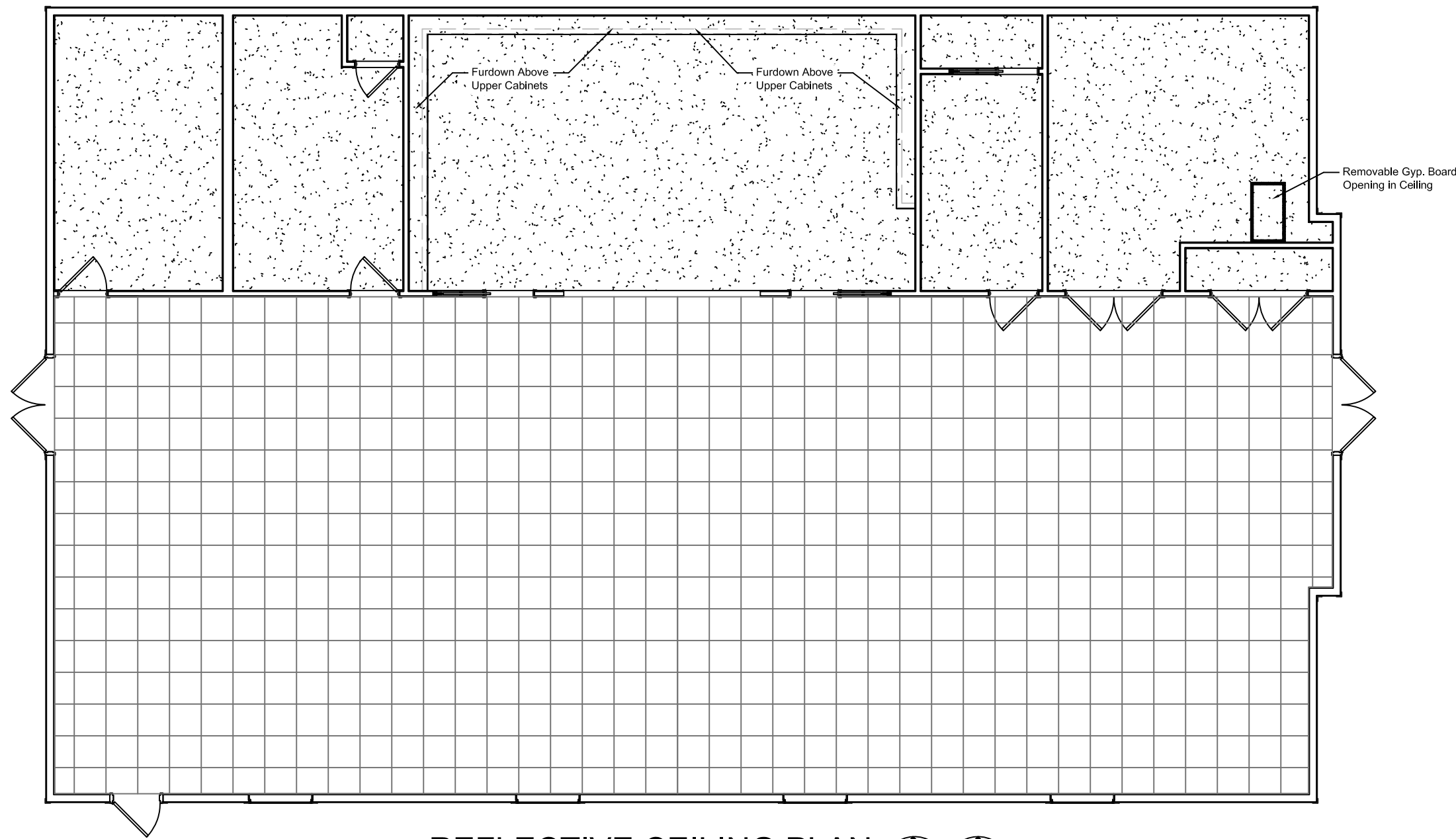


SHEET NUMBER
A2
May 28, 2010

FLOOR PLAN, ROOF PLAN AND EXTERIOR ELEVATIONS

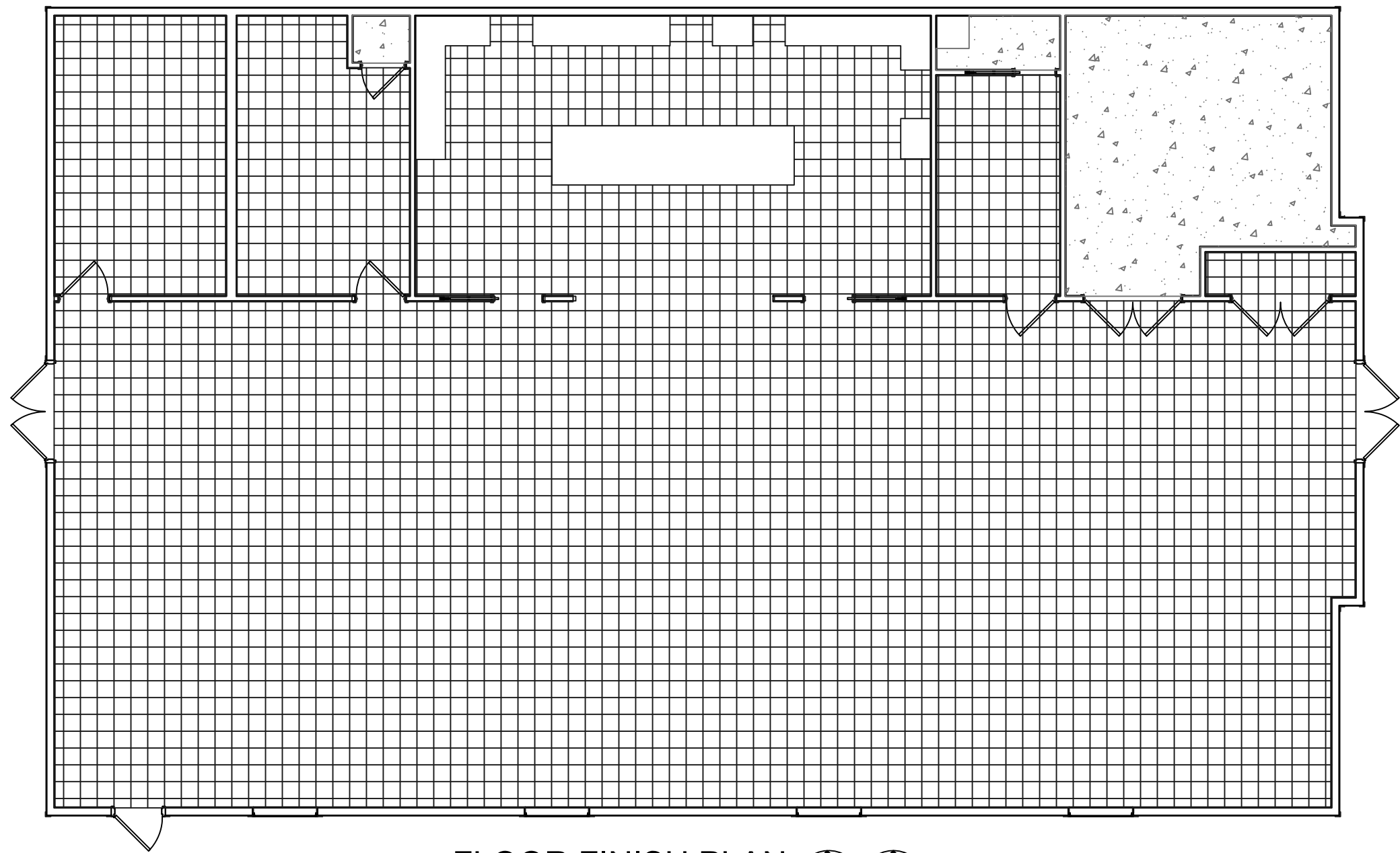
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LEGEND	
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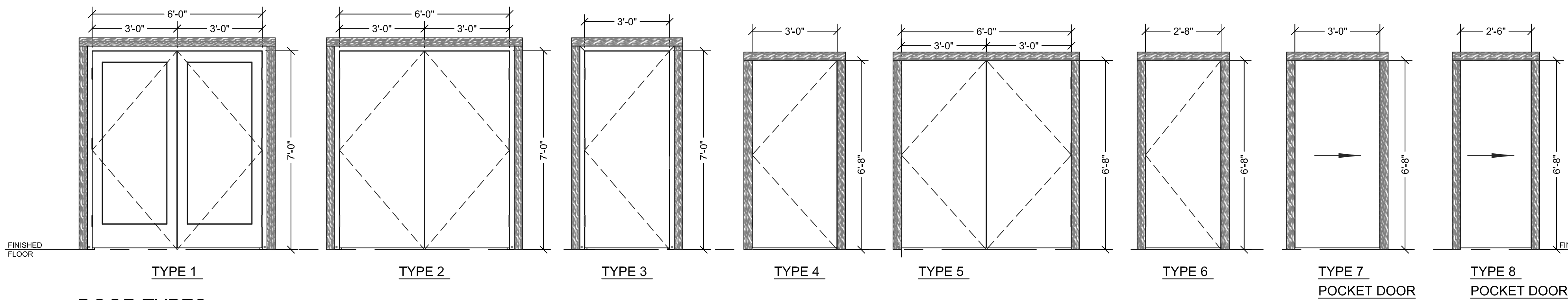


REFLECTIVE CEILING PLAN
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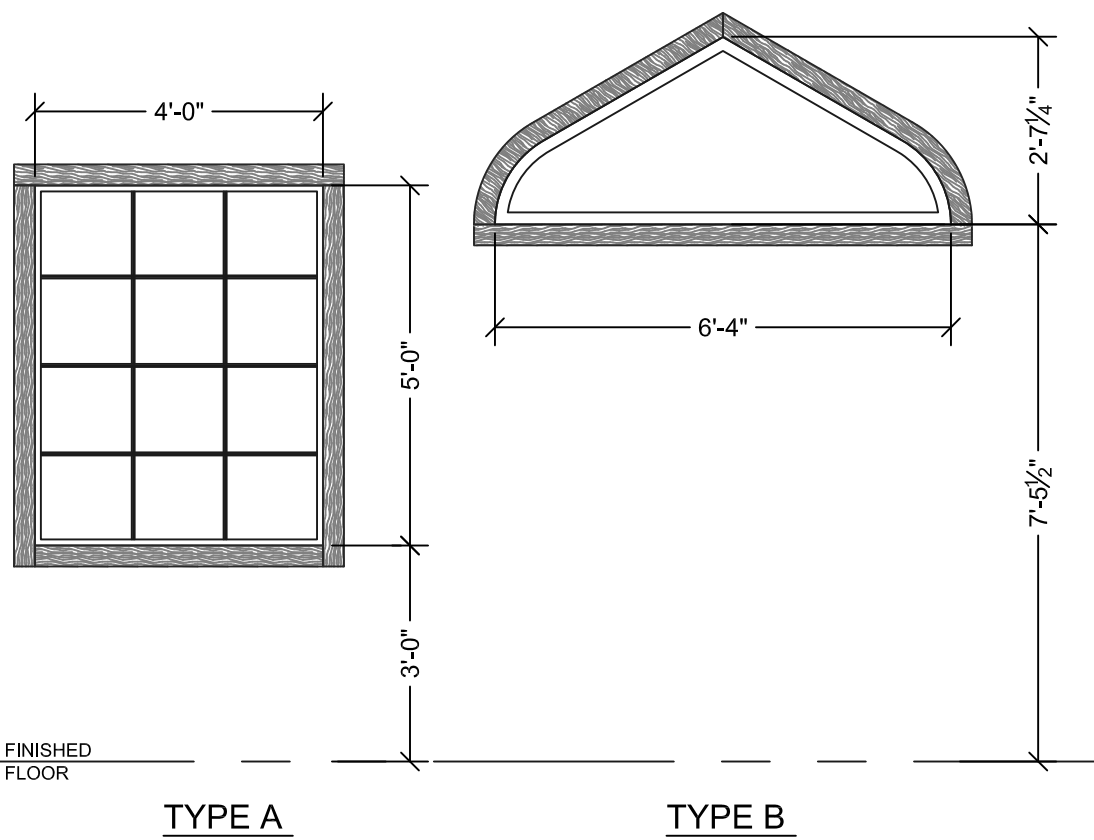
LEGEND	
	12"x12" VCT
	SEALED CONCRETE



FLOOR FINISH PLAN
Scale: 1/8" = 1'



DOOR TYPES
Scale: N.T.S.



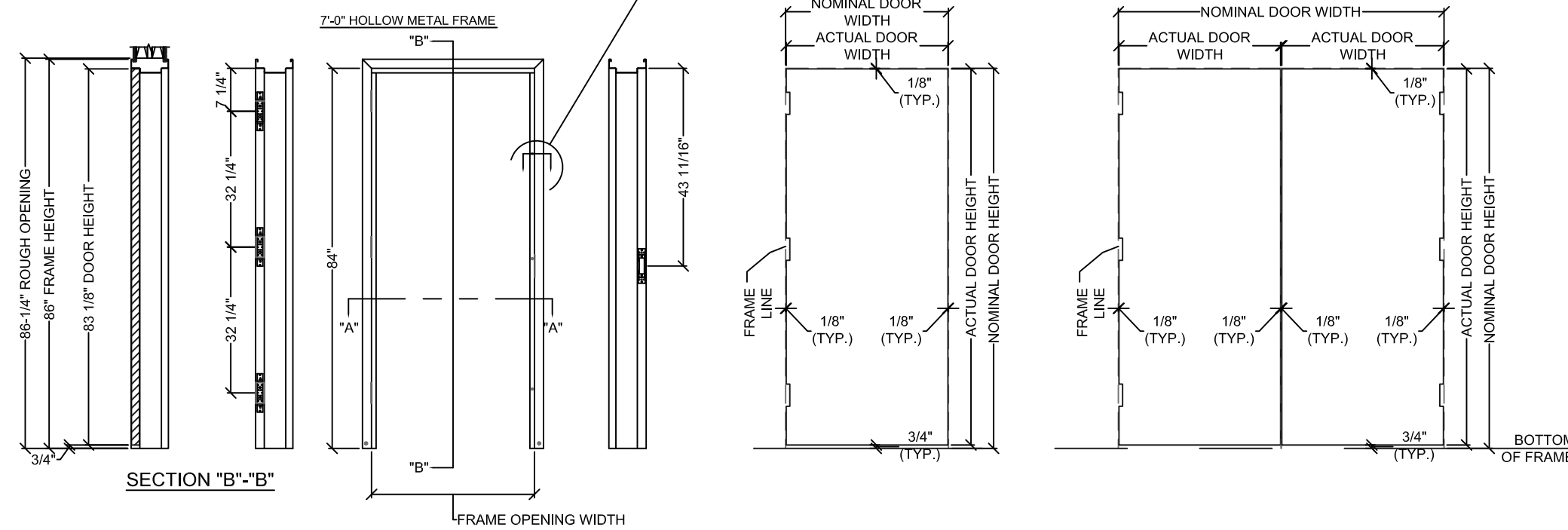
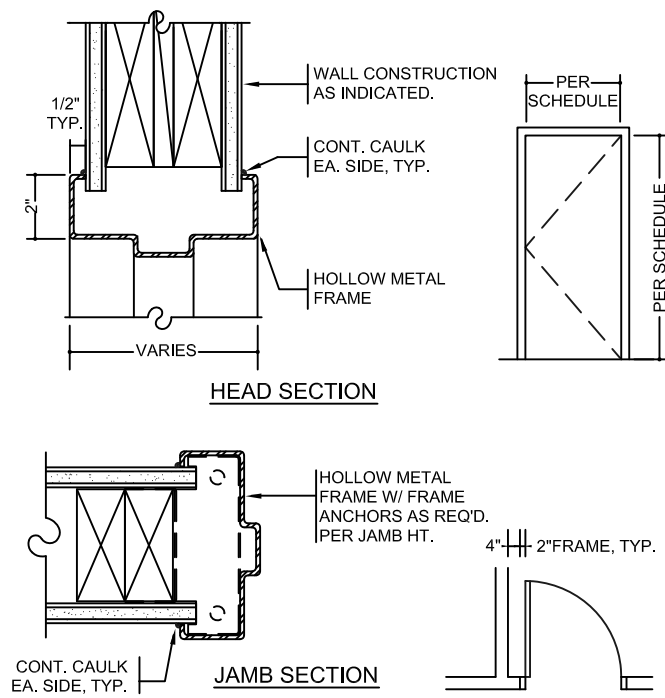
WINDOW TYPES
Scale: N.T.S.

DOOR SCHEDULE										
MARK	HWSET	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FRAME TYPE	RATING	LOCATION	REMARKS
D101A		1	6'-0"	7'-0"	1-3/4"	HM	HMF	NON-RATED	101	
D101B		2	6'-0"	7'-0"	1-3/4"	HM	HMF	NON-RATED	101	
D101C		3	3'-0"	7'-0"	1-3/4"	HM	HMF	NON-RATED	101	
D102		4	3'-0"	6'-8"	1-3/4"	SC WOOD	WOOD	NON-RATED	102	
D103		4	3'-0"	6'-8"	1-3/4"	SC WOOD	WOOD	NON-RATED	103	
D104		6	2'-8"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	104	
D105A		7	3'-0"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	105	POCKET DOOR
D105B		7	3'-0"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	105	POCKET DOOR
D106		4	3'-0"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	106	
D107		8	2'-6"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	107	POCKET DOOR
D108		5	6'-0"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	108	
D109		5	6'-0"	6'-8"	1-3/8"	HC WOOD	WOOD	NON-RATED	109	

WINDOW SCHEDULE						
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	REMARKS
A	4'-0"	5'-0"	1" INSULATED	ALUM. BRONZE	FIXED	BRONZE TINT
B	6'-4"	2'-7 1/4"	XR	ALUM. BRONZE	FIXED	BRONZE TINT

ROOM FINISH SCHEDULE						
MARK	ROOM DESCRIPTION	FLOORING	WALLS	CEILING FINISH	CEILING HEIGHT	BASE
101	FELLOWSHIP HALL	VCT	GYP BRD	ACT	10'	RUBBER
102	WOMEN'S RESTROOM	VCT	GYP BRD	GYP BRD	10'	RUBBER
103	MEN'S RESTROOM	VCT	GYP BRD	GYP BRD	10'	RUBBER
104	WH CLOSET	SEALED CONC	GYP BRD	GYP BRD	10'	RUBBER
105	KITCHEN	VCT	GYP BRD	GYP BRD	10'	RUBBER
106	PANTRY	VCT	GYP BRD	GYP BRD	10'	RUBBER
107	JANITOR'S CLOSET	SEALED CONC	GYP BRD	GYP BRD	10'	RUBBER
108	STORAGE	SEALED CONC	GYP BRD	GYP BRD	10'	RUBBER
109	STORAGE	VCT	GYP BRD	GYP BRD	10'	RUBBER

LEGEND							
ACT	2X2 ACOUSTIC TILE	CONC	CONCRETE	FRP	FIBERGLASS REINFORCED PLASTIC	HMF	HOLLOW METAL FRAME
ALUM	ALUMINUM	CT	CERAMIC TILE	GYP BRD	PAINTED GYPSUM BOARD	VCT	VINYL COMPOSITION TILE
SC	SOLID CORE	HC	HOLLOW CORE				



FRAME DIMENSIONS					
A	JAMB DEPTH	B	SOFFIT	C	THROAT
4 1/2"	1 1/2"	3 1/2"			
4 3/4"	1 1/4"	3 3/4"			
5 5/8"	2 1/8"	4 5/8"			
5 7/8"	2 3/8"	4 7/8"			
6 1/4"	2 3/4"	5 1/4"			
6 5/8"	3 1/8"	5 5/8"			
7 1/8"	3 5/8"	6 1/8"			
7 3/4"	4 1/4"	6 3/4"			
8 1/4"	4 3/4"	7 1/4"			
9 1/2"	6"	8 1/2"			

GENERAL HOLLOW METAL DOOR DETAILS
Scale: N.T.S.

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DATE	BY

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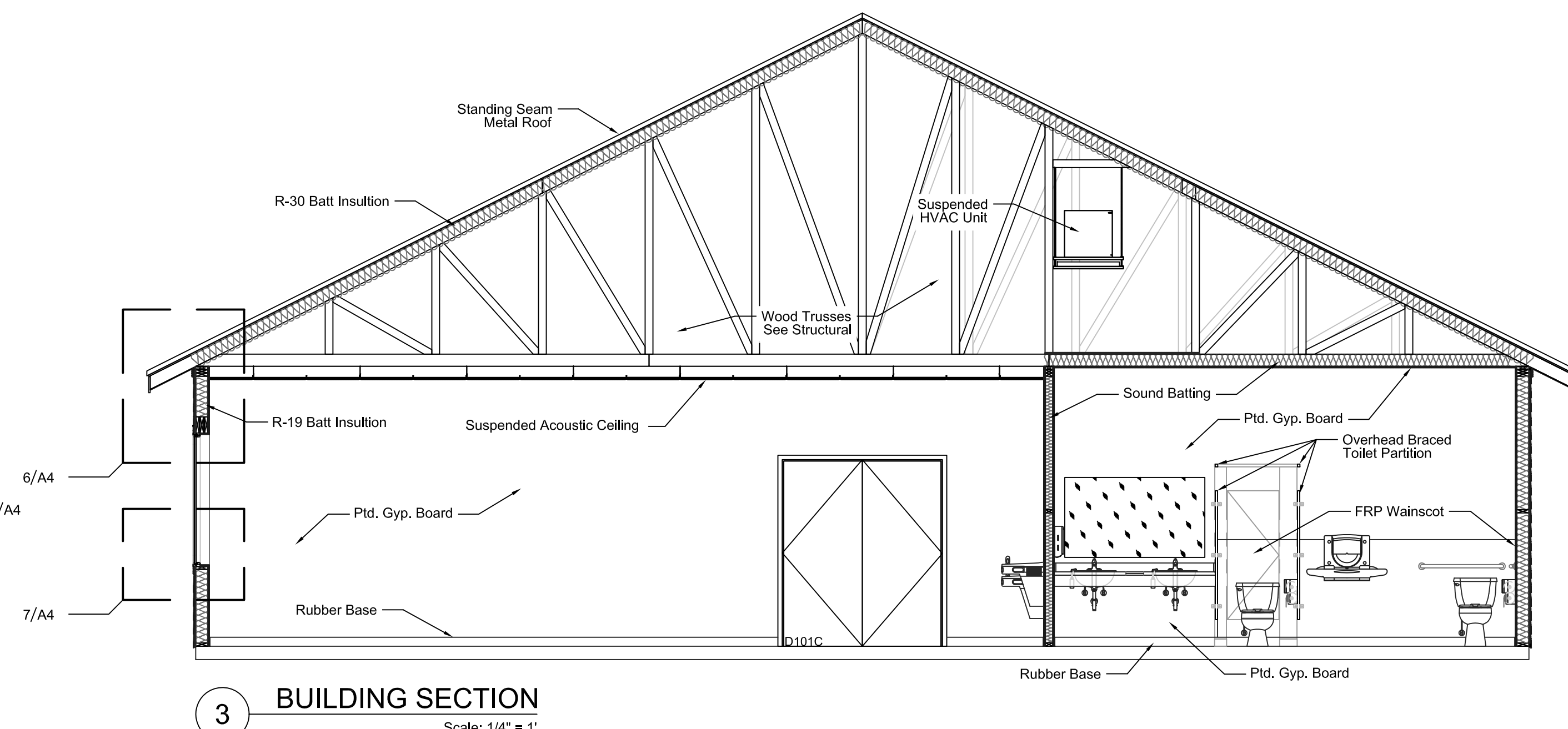
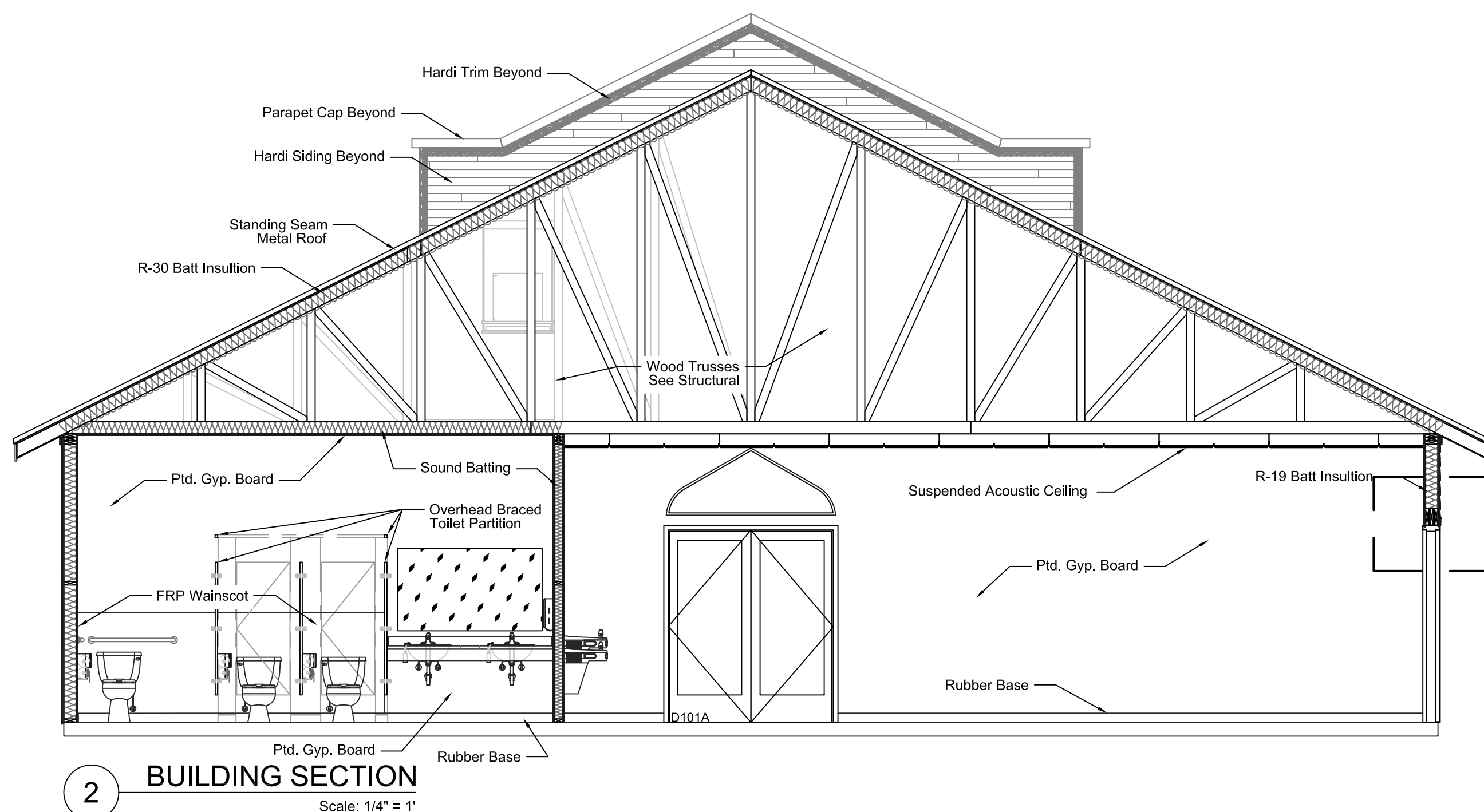
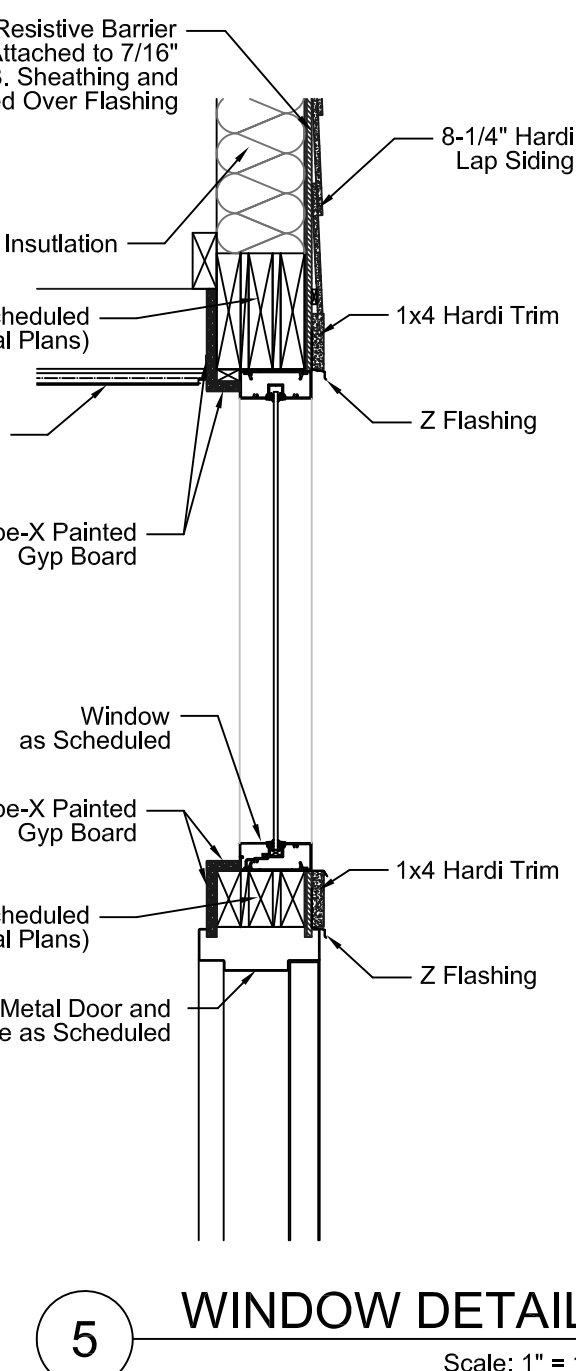
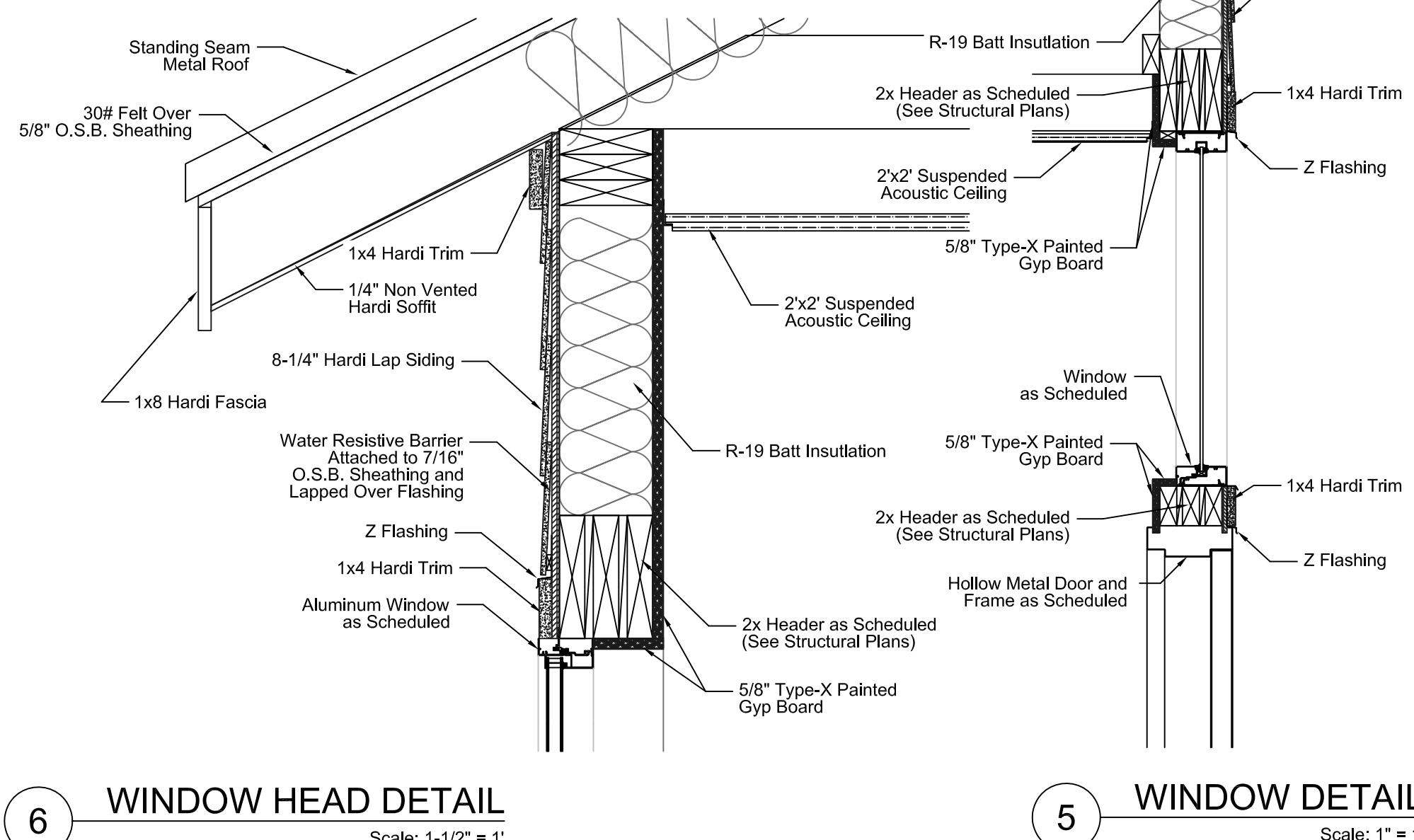
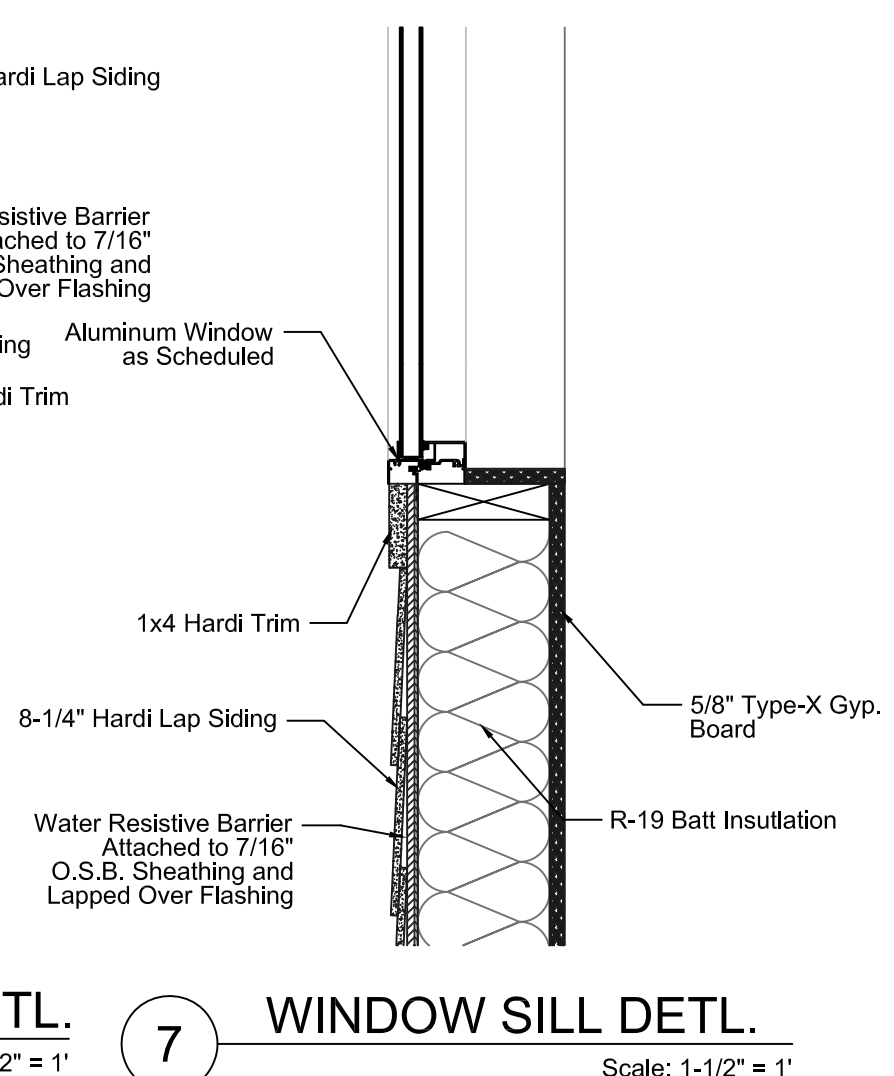
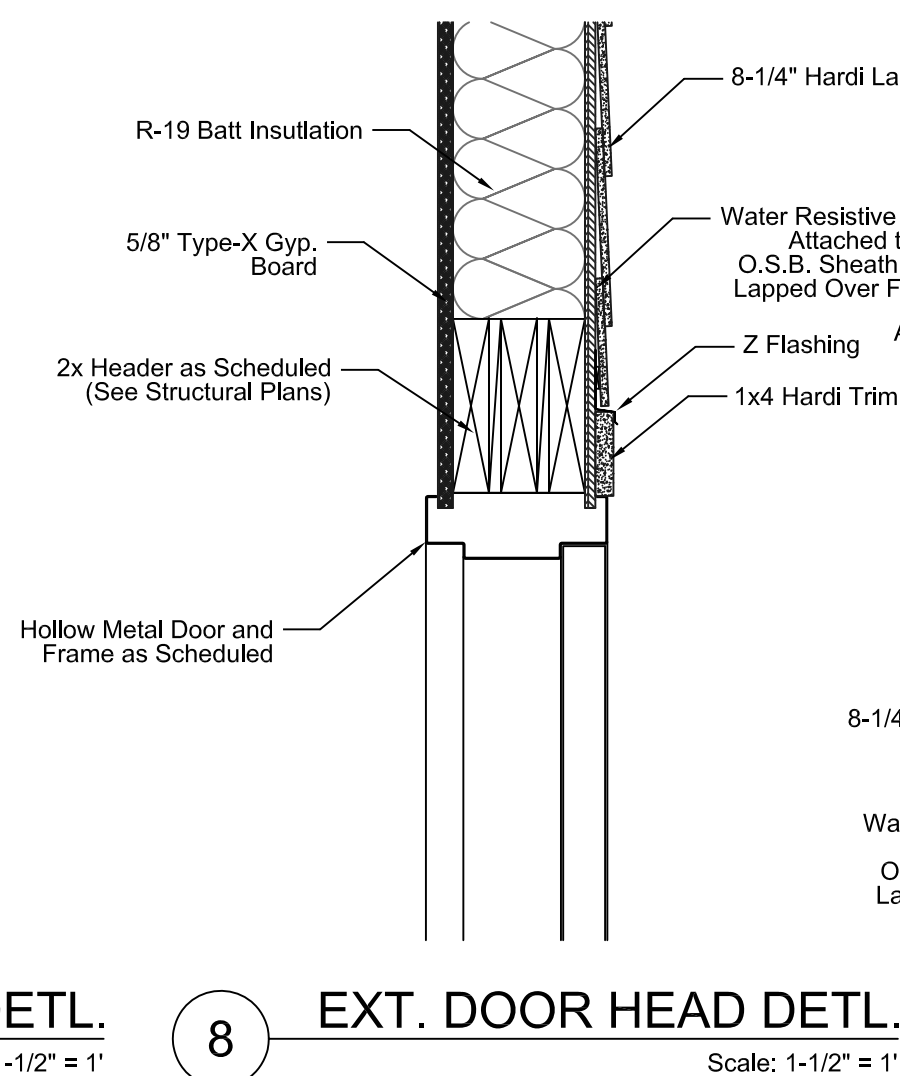
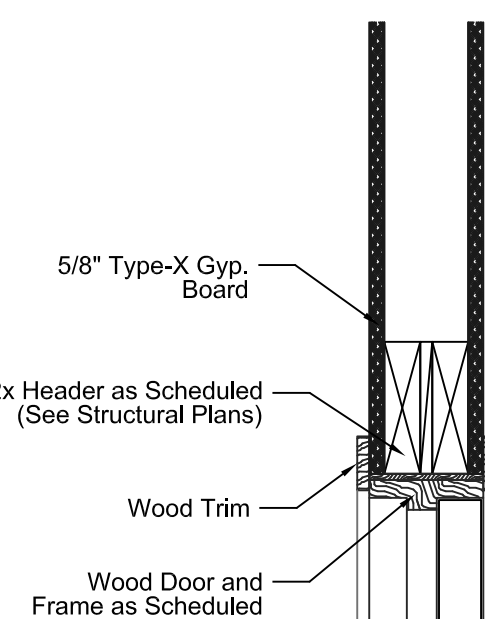
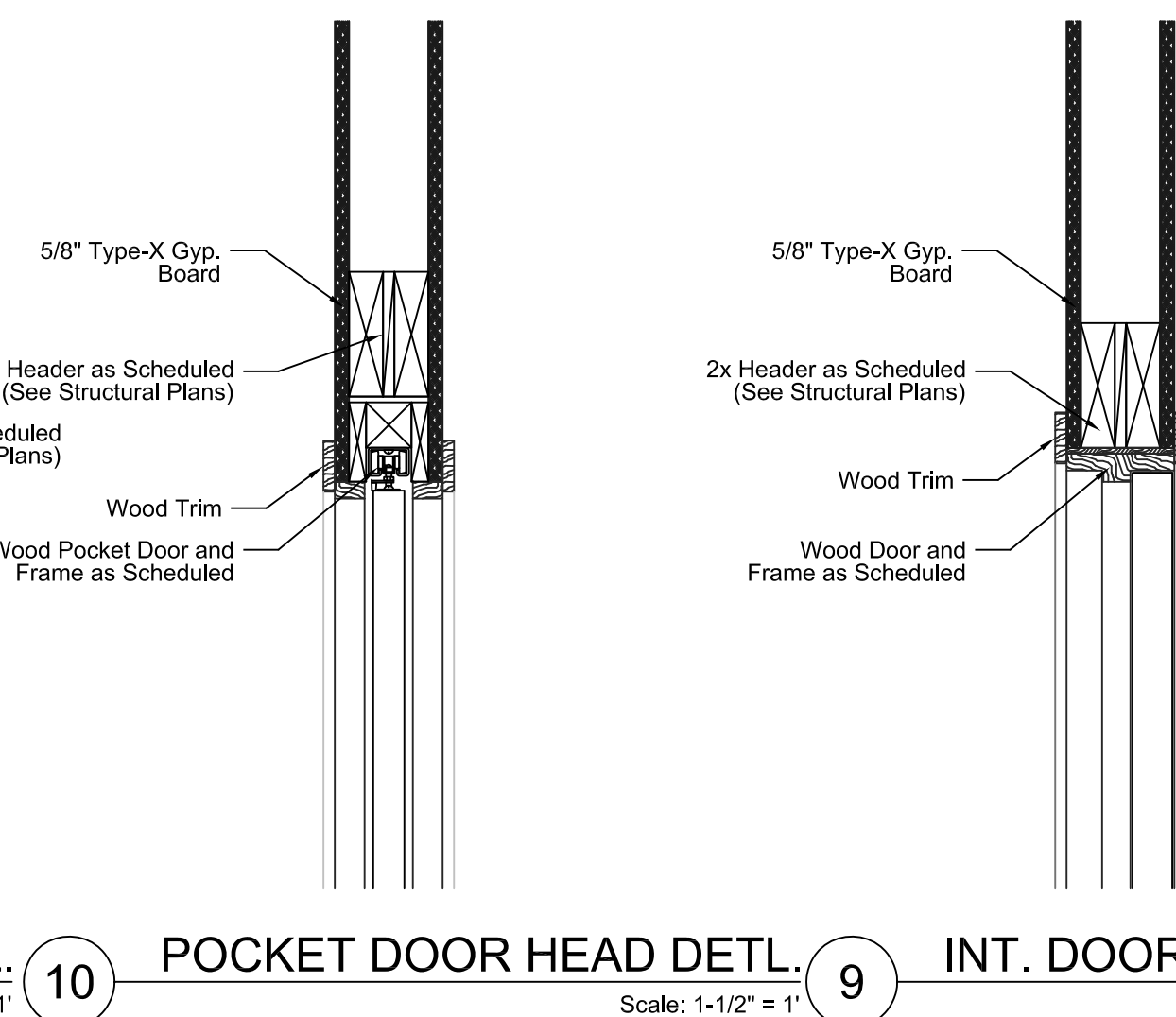
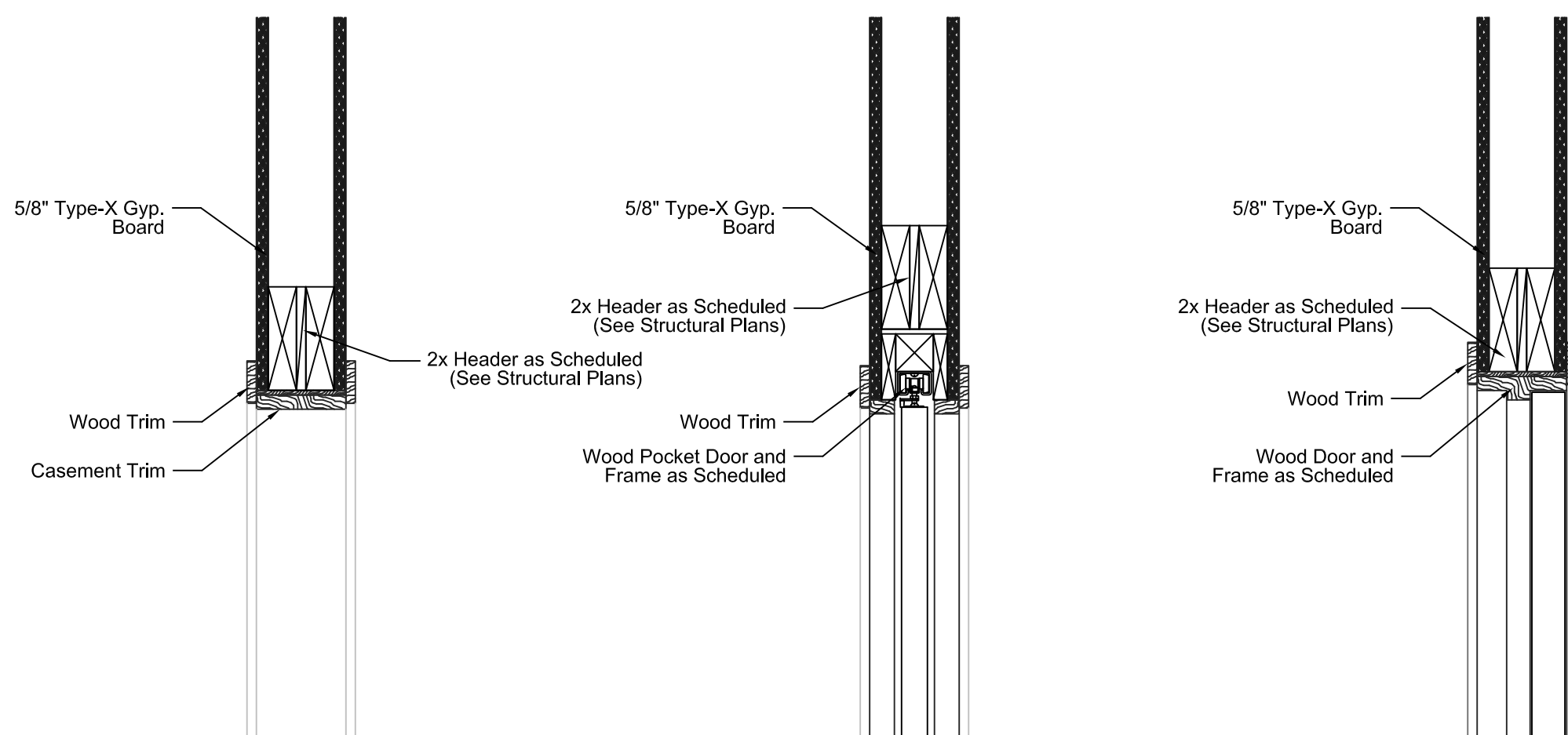
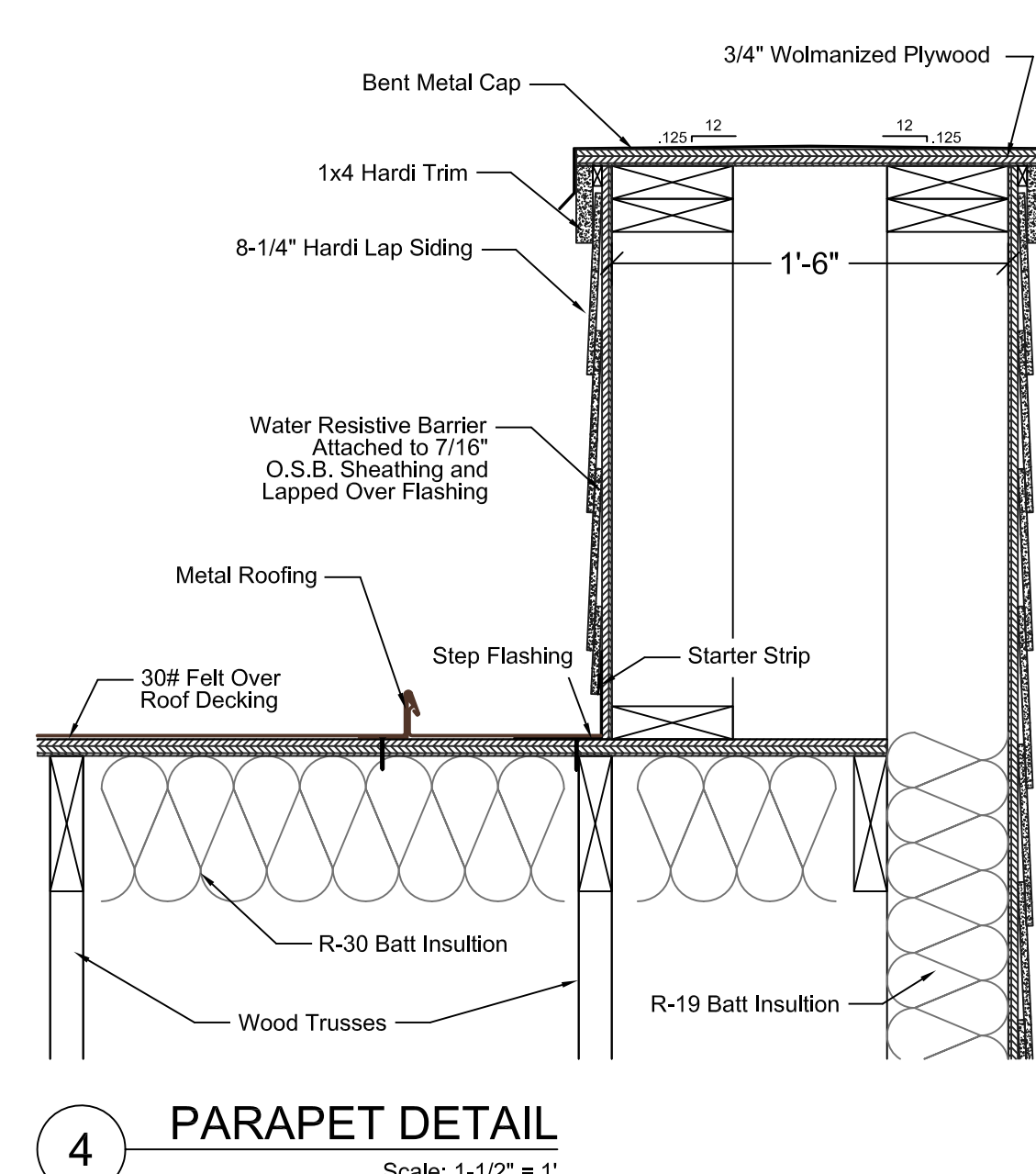
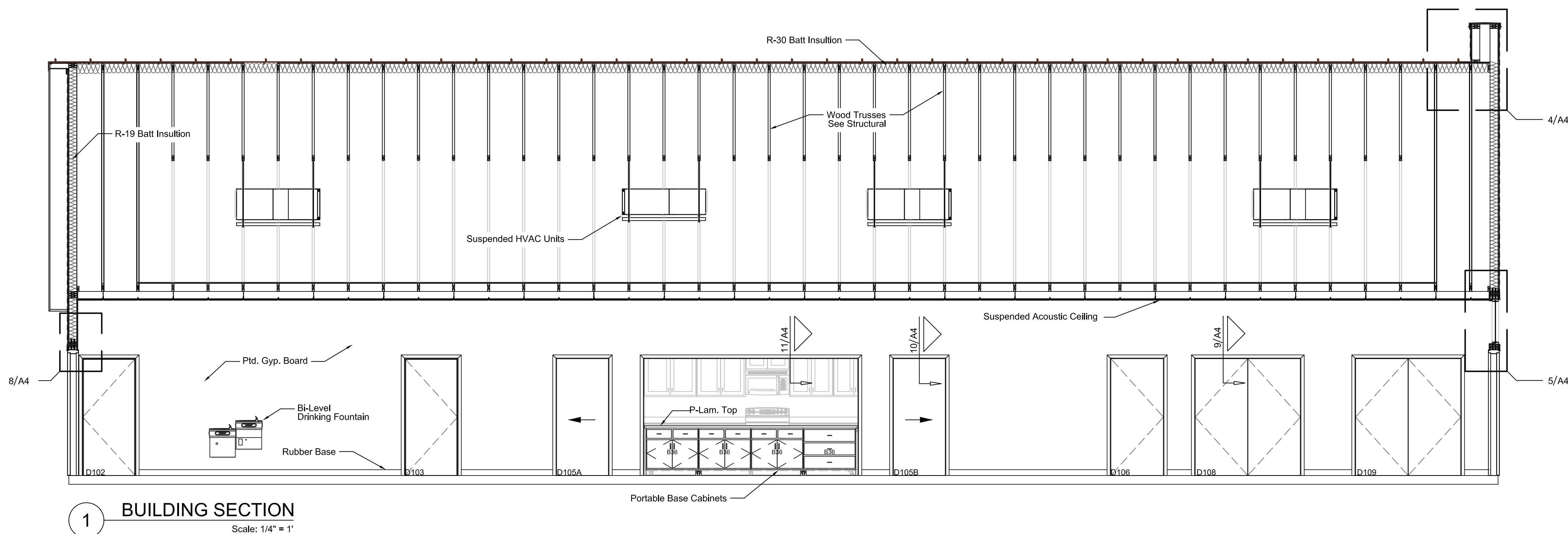
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SHEET NUMBER
A3
May 28, 2010

SCHEDULES, DETAILS AND FINISHES

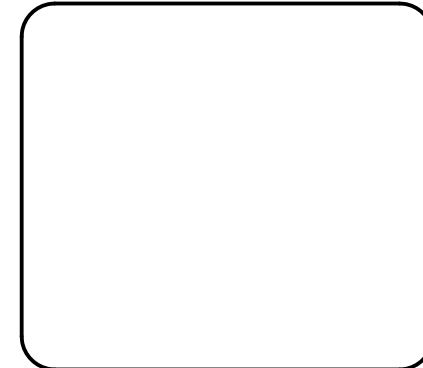
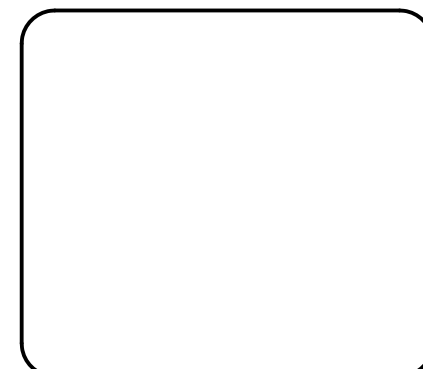
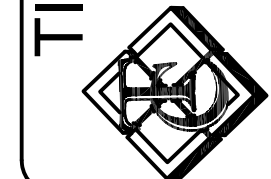
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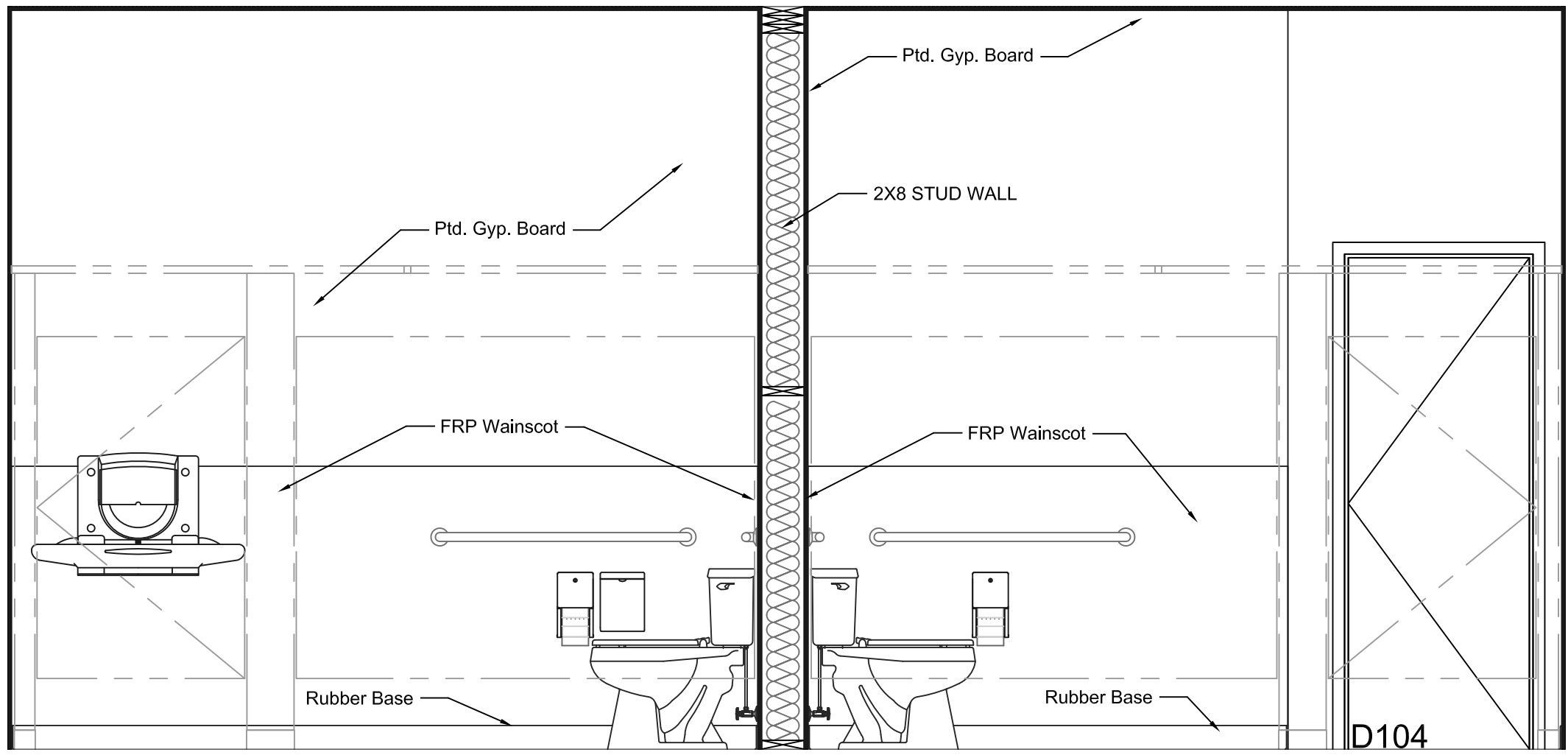
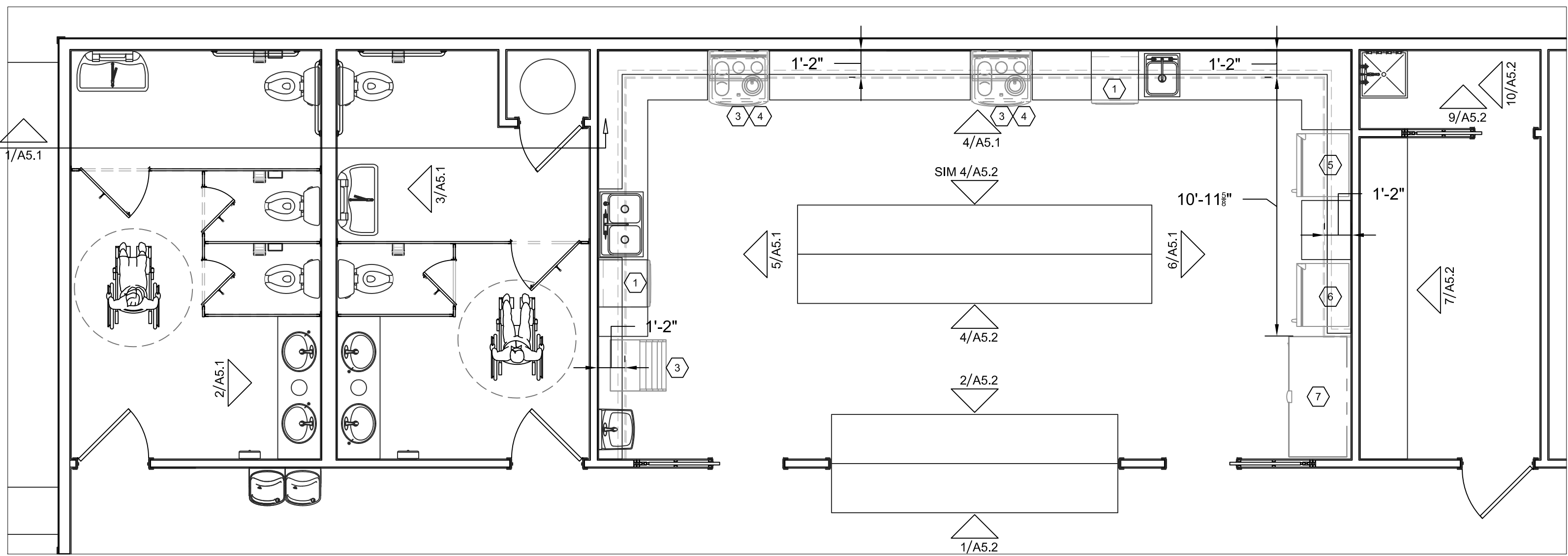
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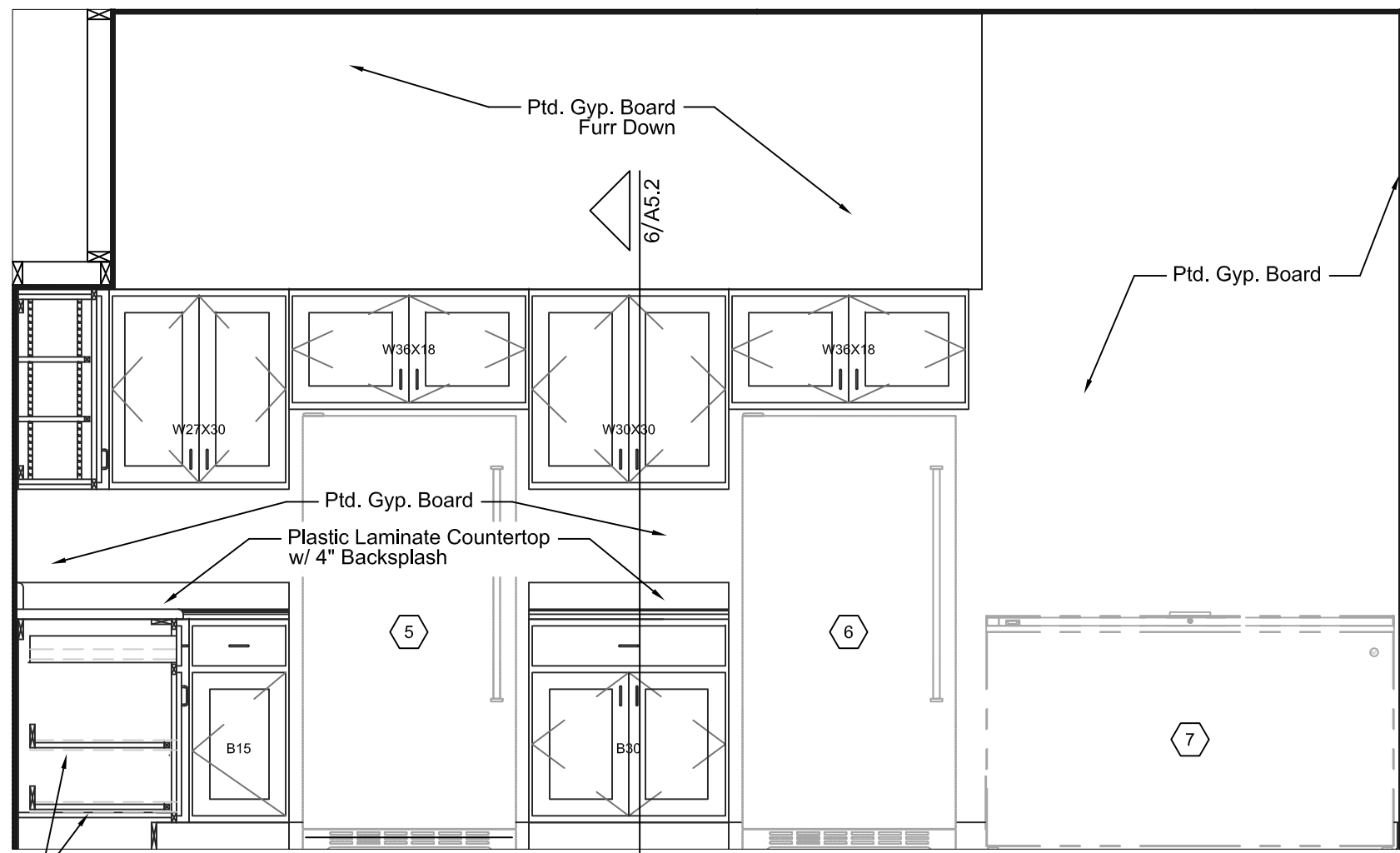
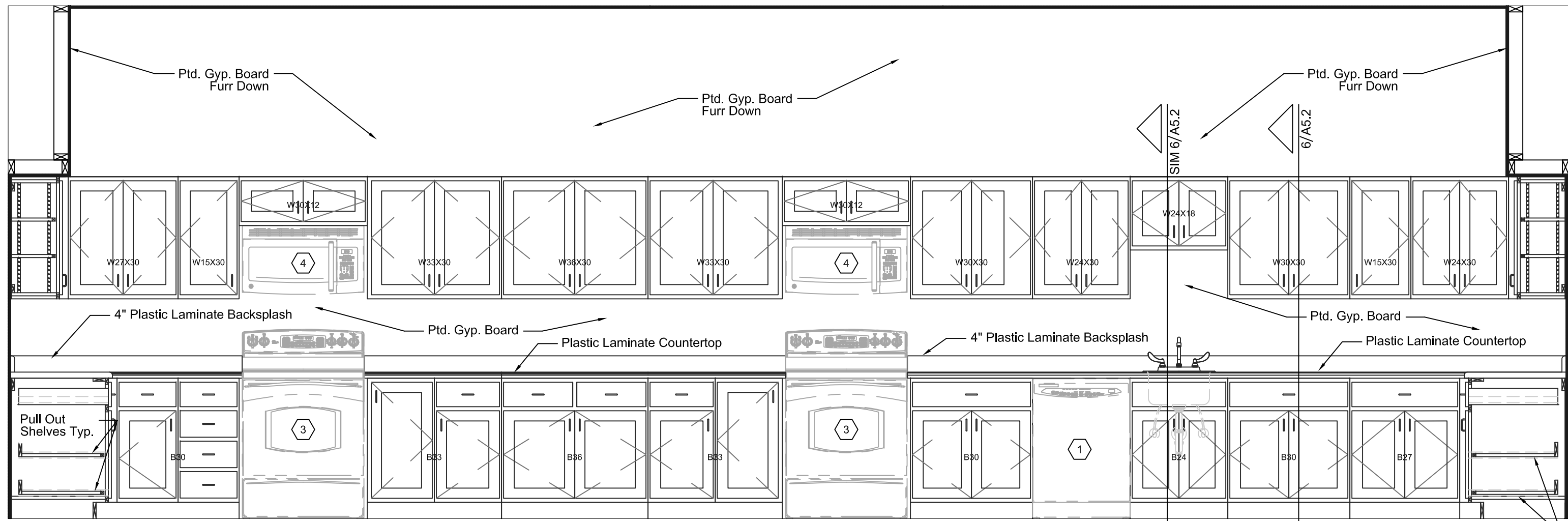
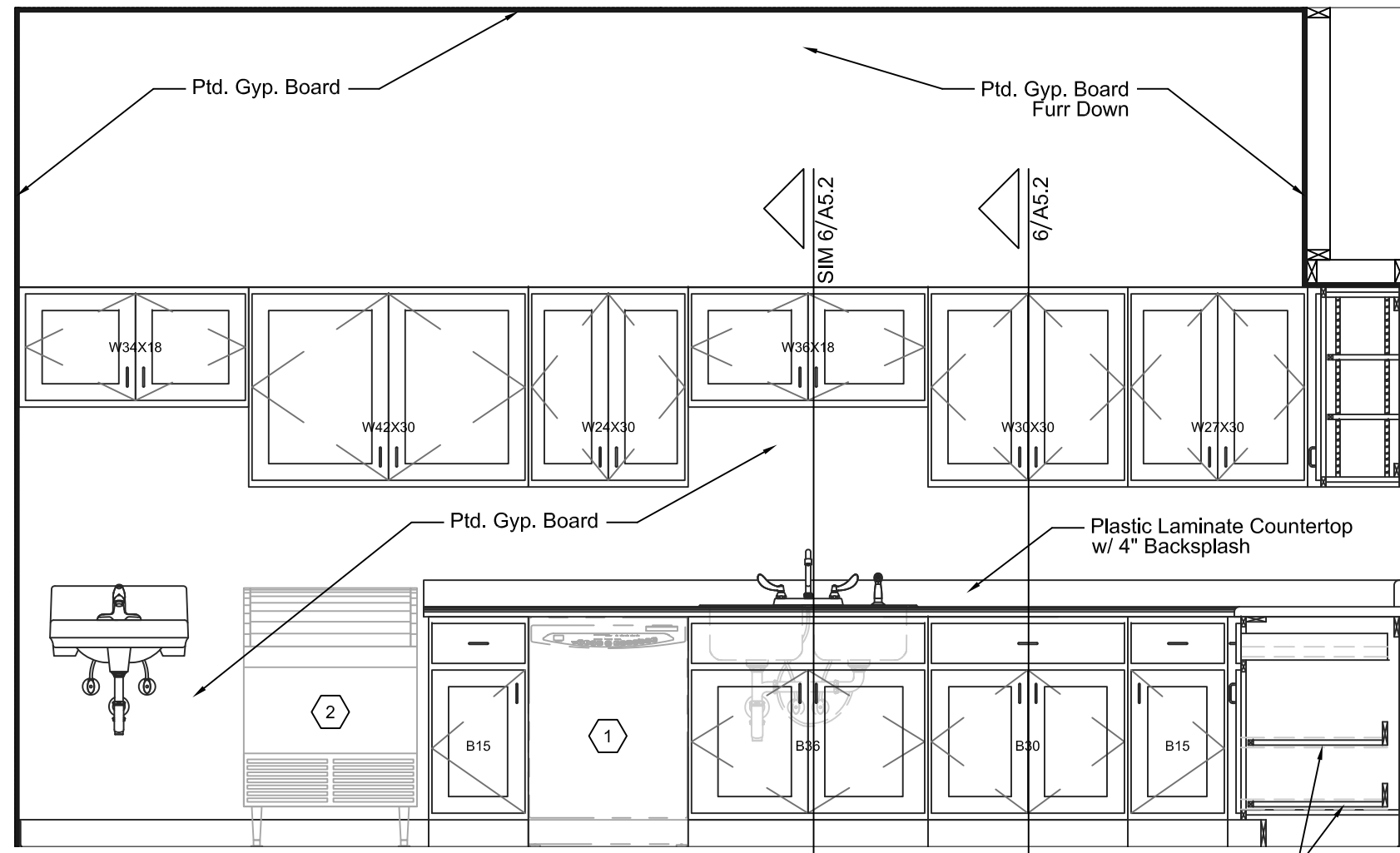
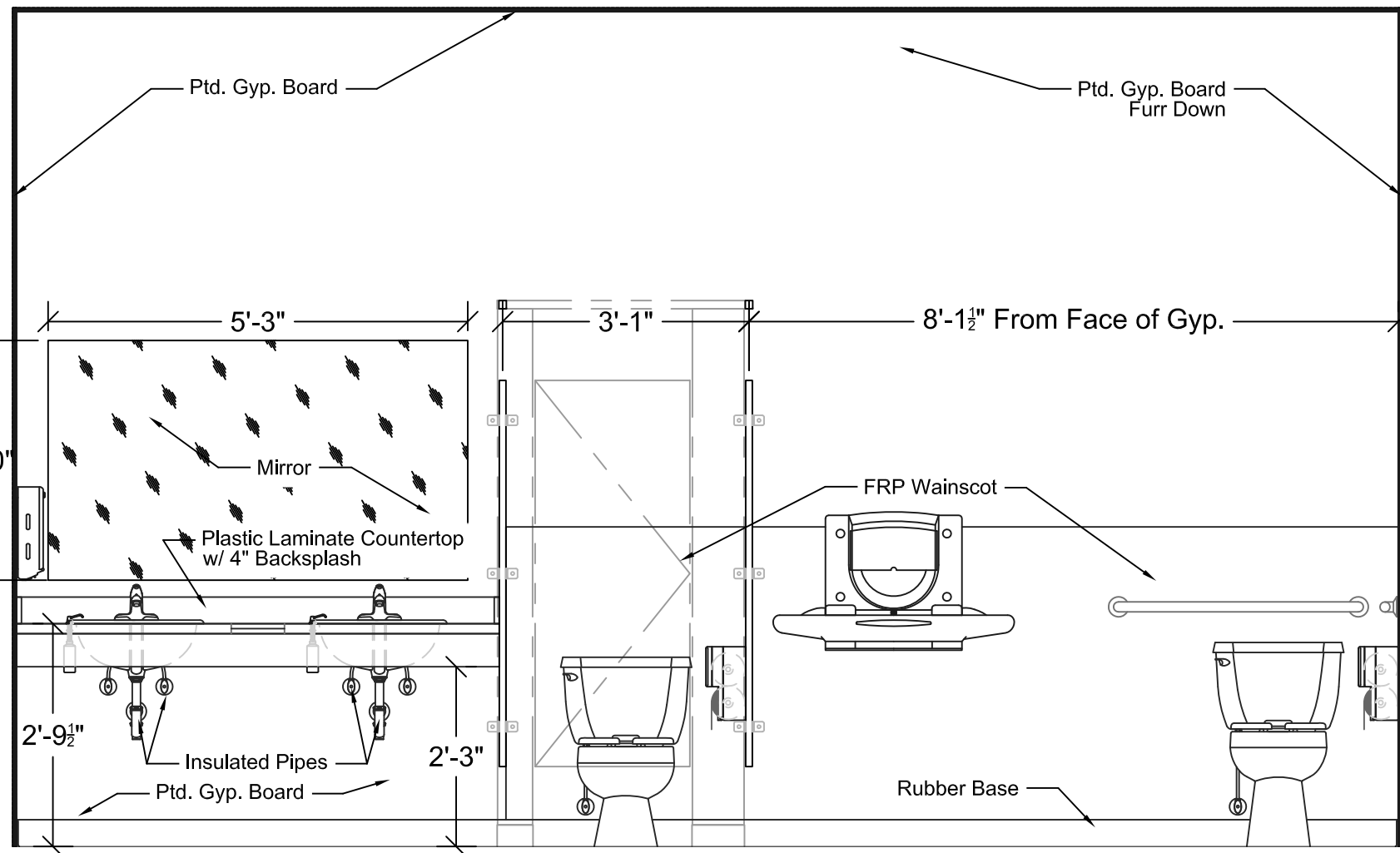
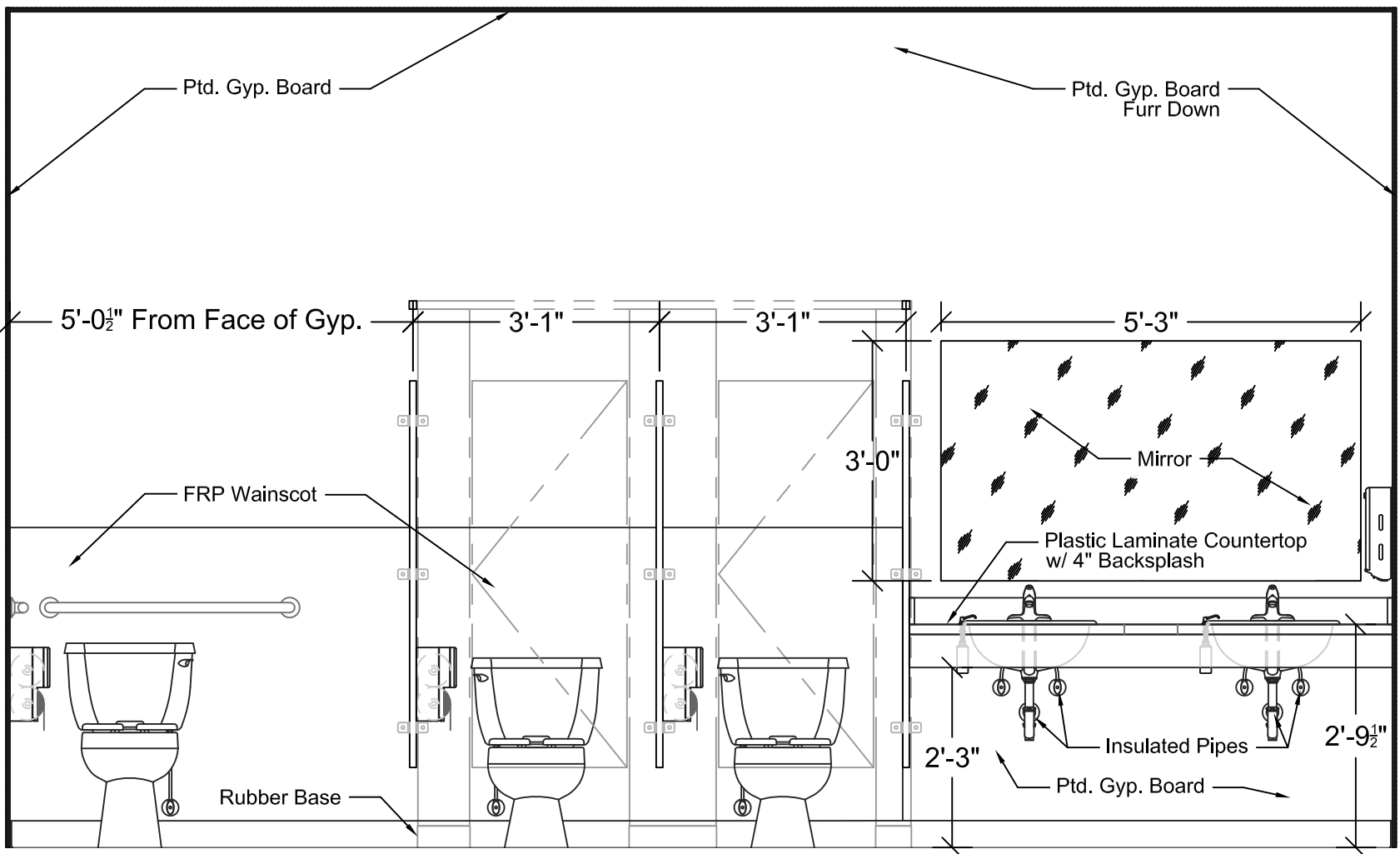
SHEET NUMBER
A4
May 28, 2010

BUILDING AND WALL SECTIONS

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Note: See ADA Guidelines Sheets 02 and 03 for Required Mounting Hts. of Plumbing Fixtures and Accessories



KITCHEN EQUIPMENT SCHEDULE - NOT IN BID; OWNER PROVIDED			
ITEM	DESCRIPTION	QTY	REMARKS
1	DISHWASHER	2	
2	ICEMAKER	1	AREAS SIZED FOR SCOTTSMAN MODEL # CU1526
3	GAS RANGE	2	30" FREE STANDING GAS OVEN RANGE
4	MICROWAVE	2	30" VENT HOOD COMBO
5	REACH IN SOLID DOOR REFRIGERATOR	1	
6	REACH IN SOLID DOOR FREEZER	1	
7	CHEST FREEZER	1	

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DATE	BY

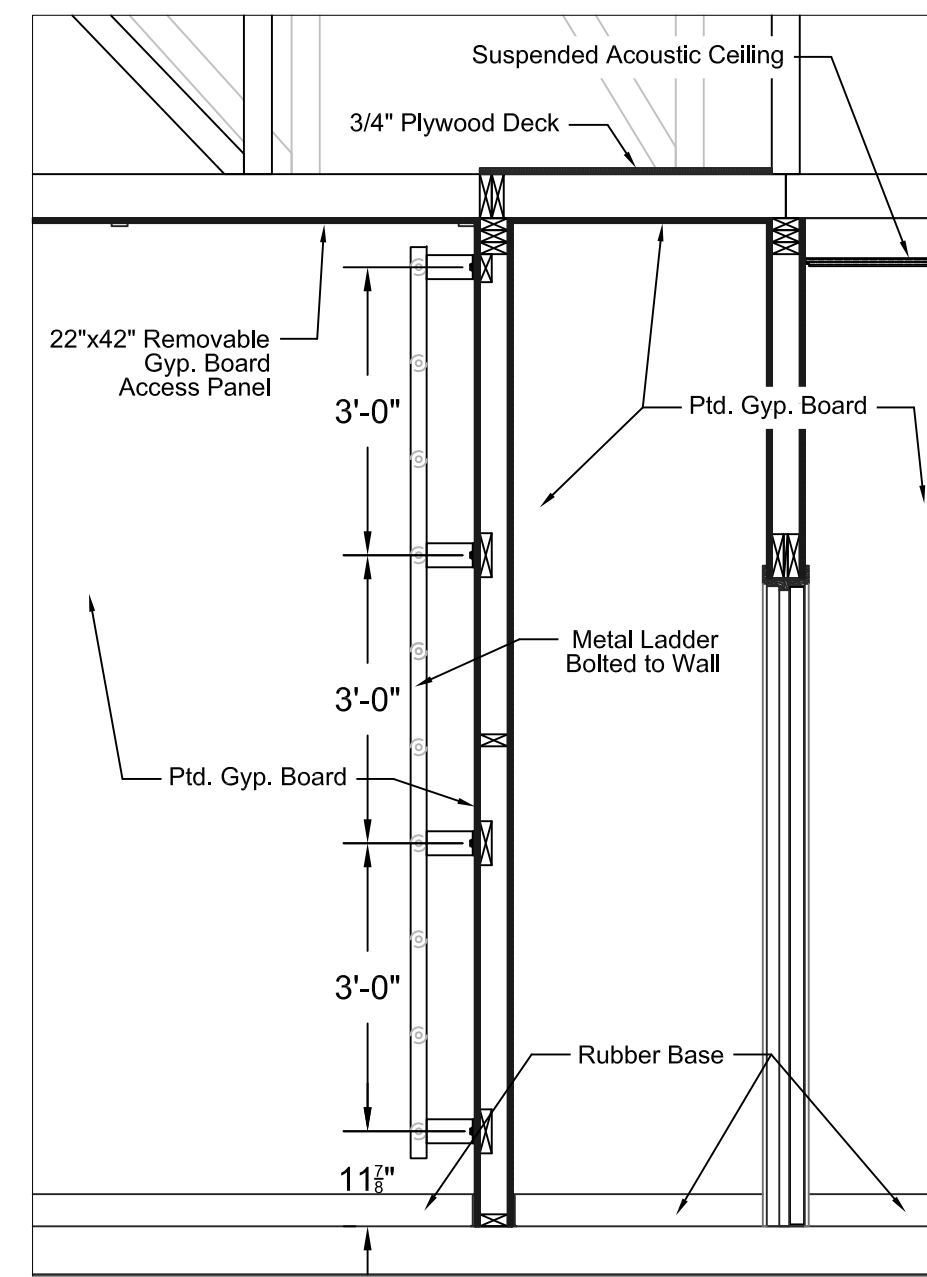
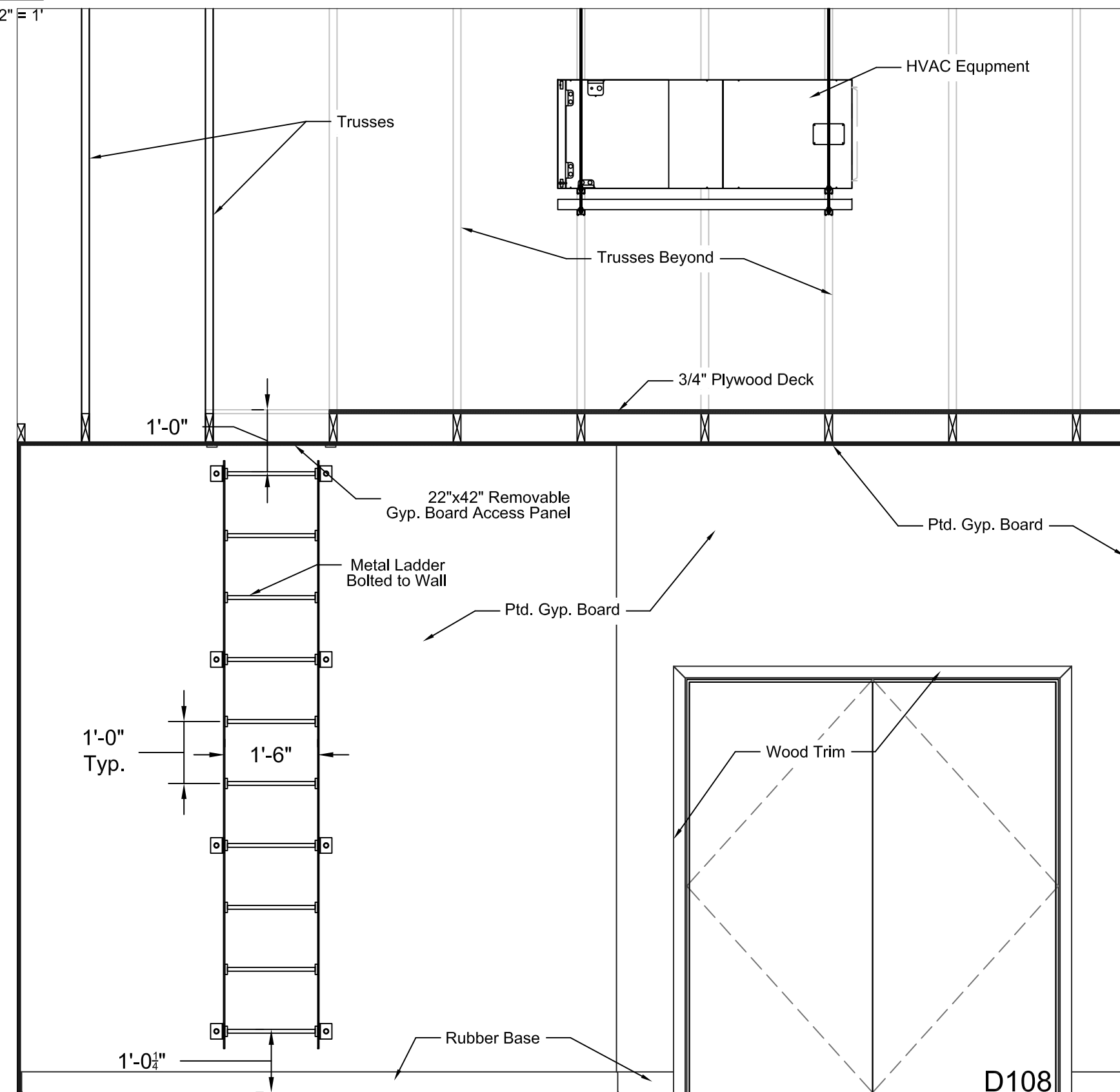
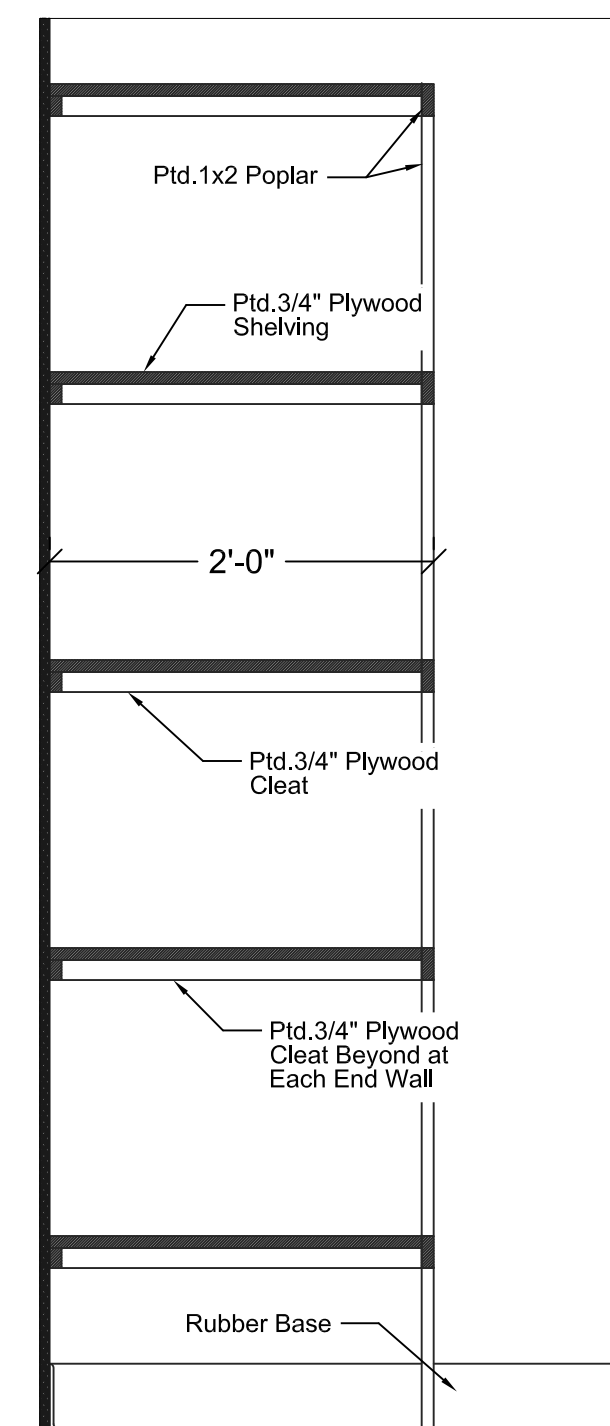
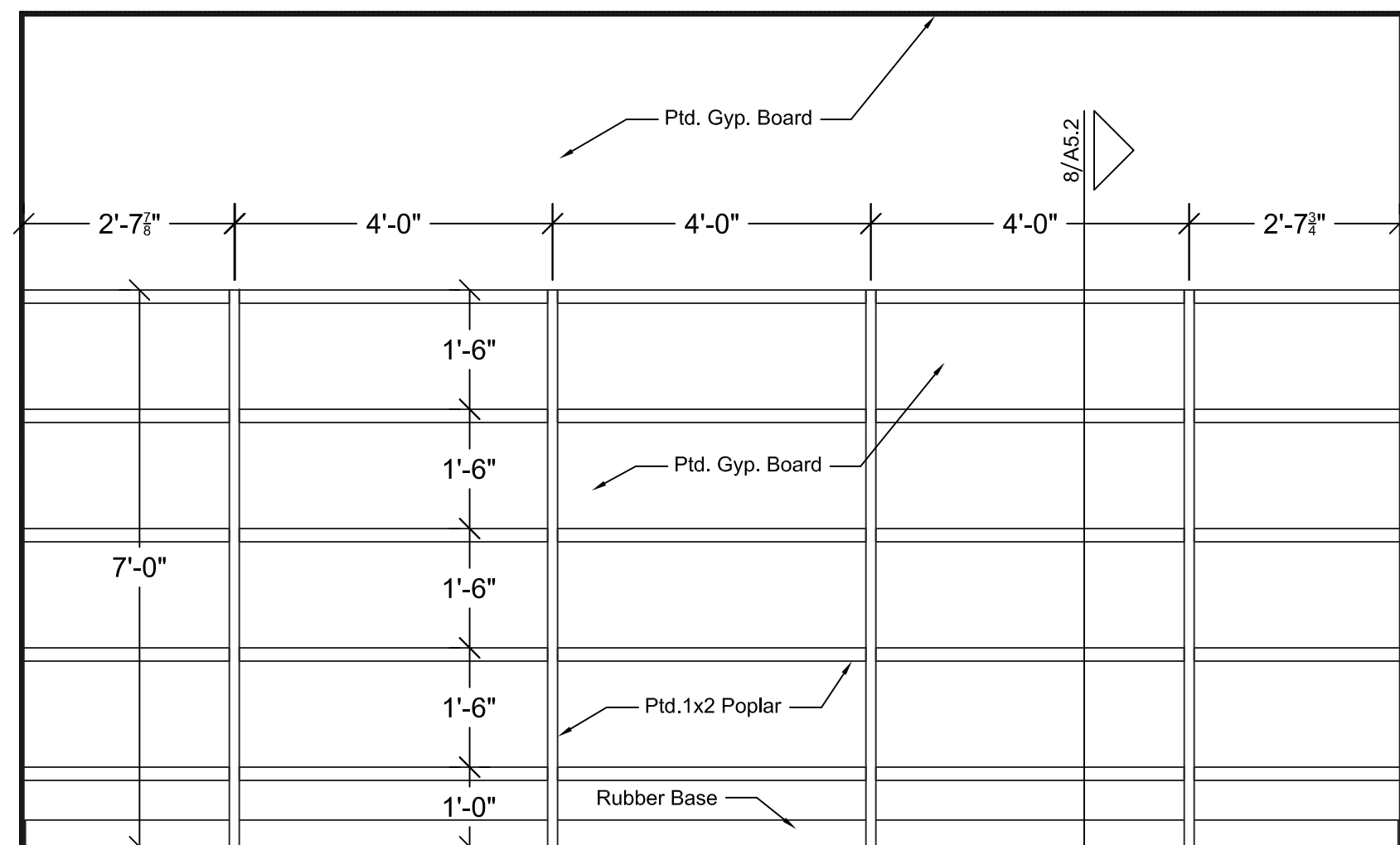
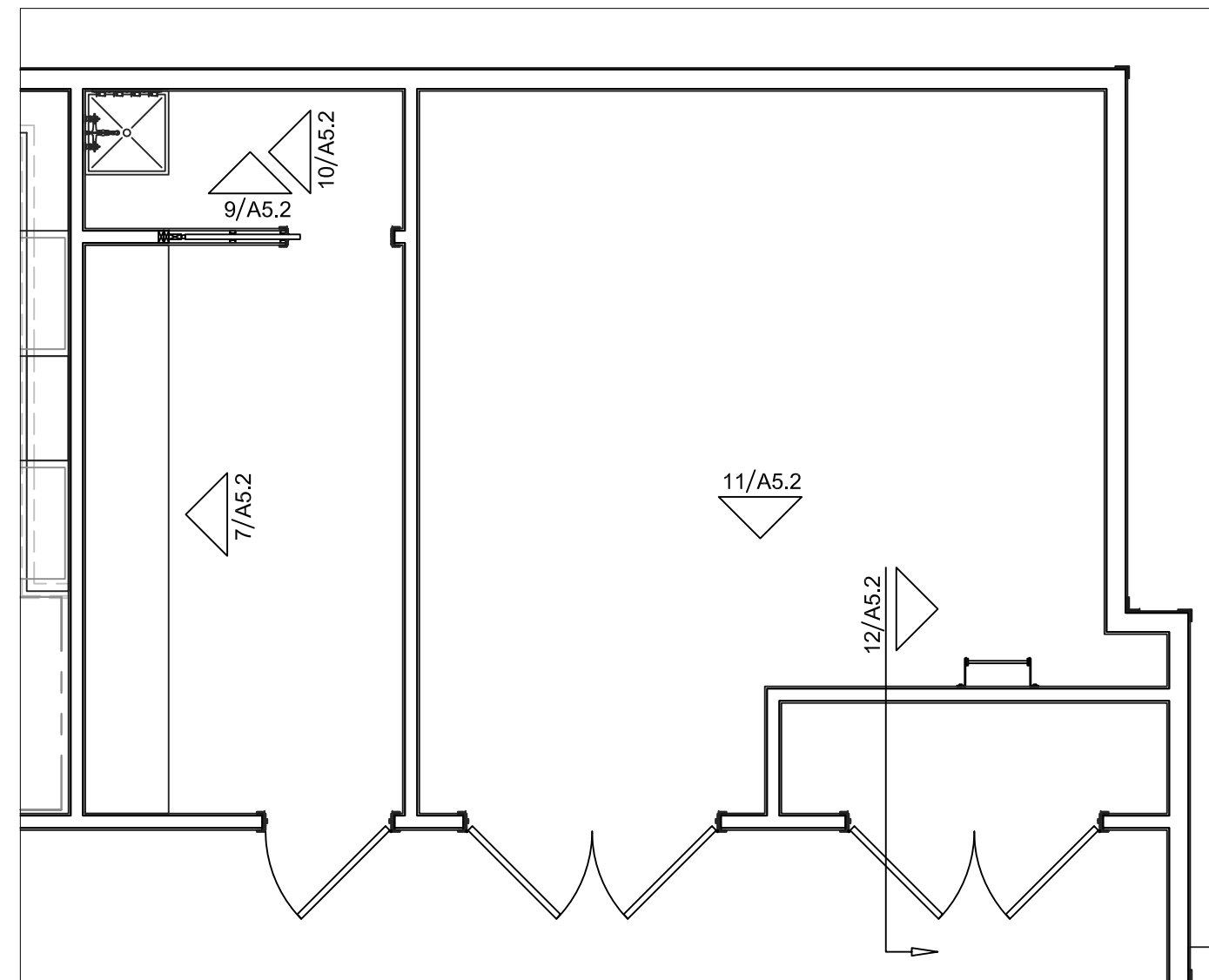
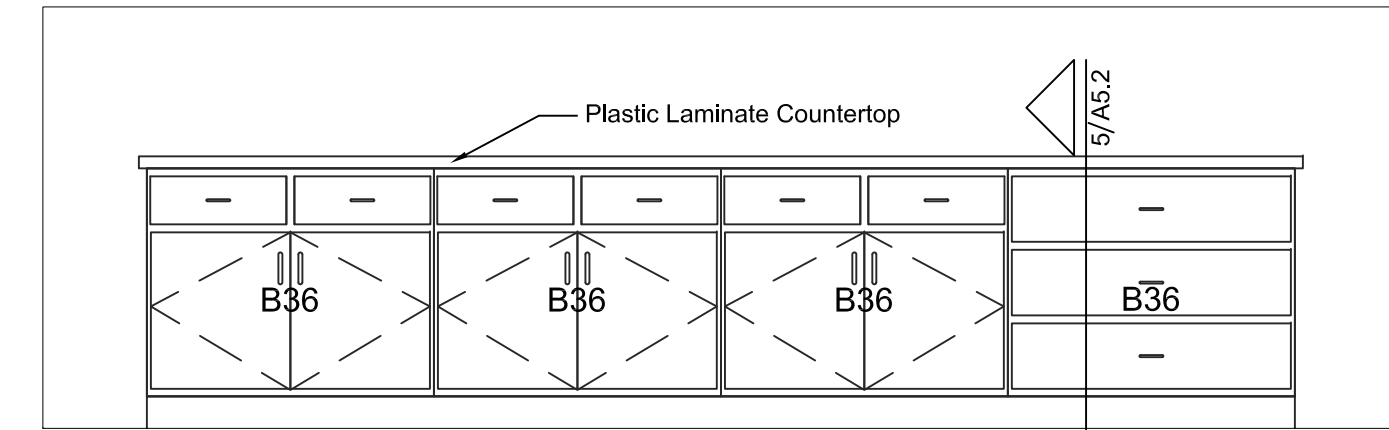
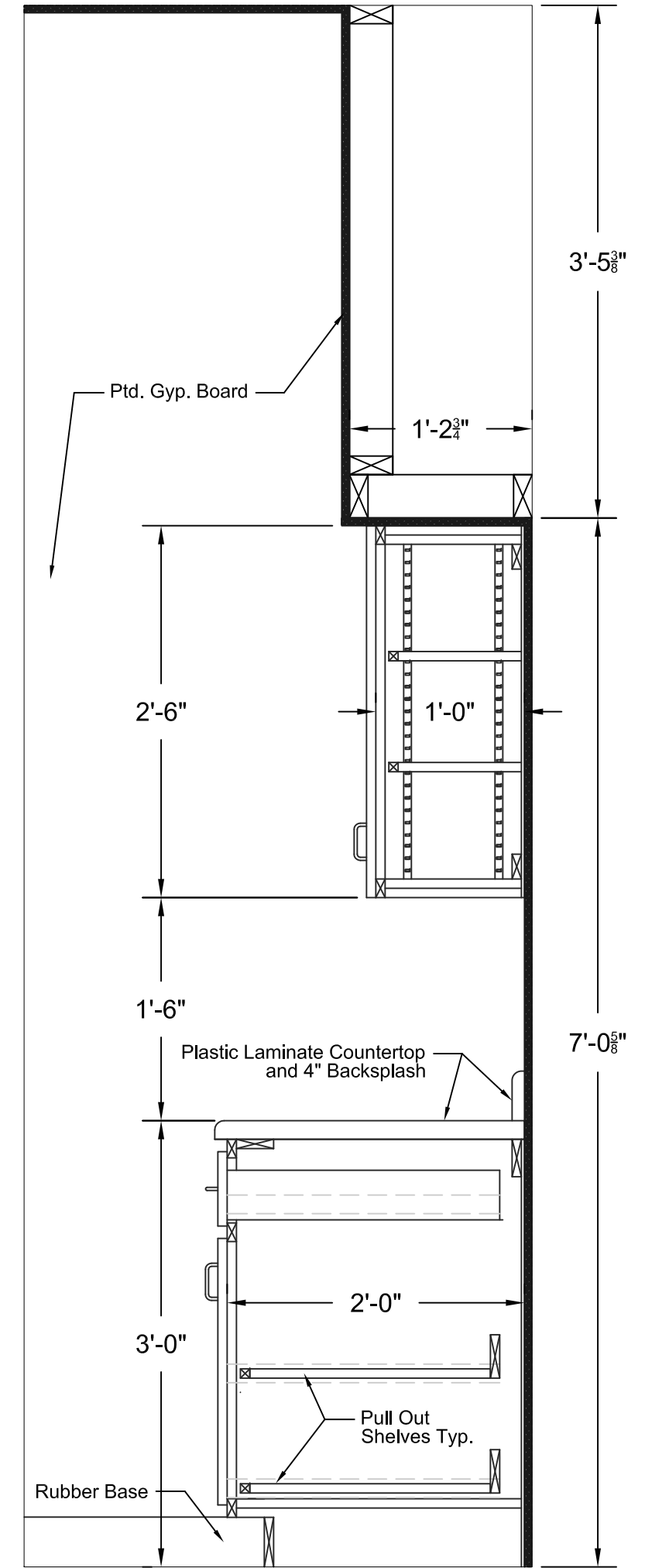
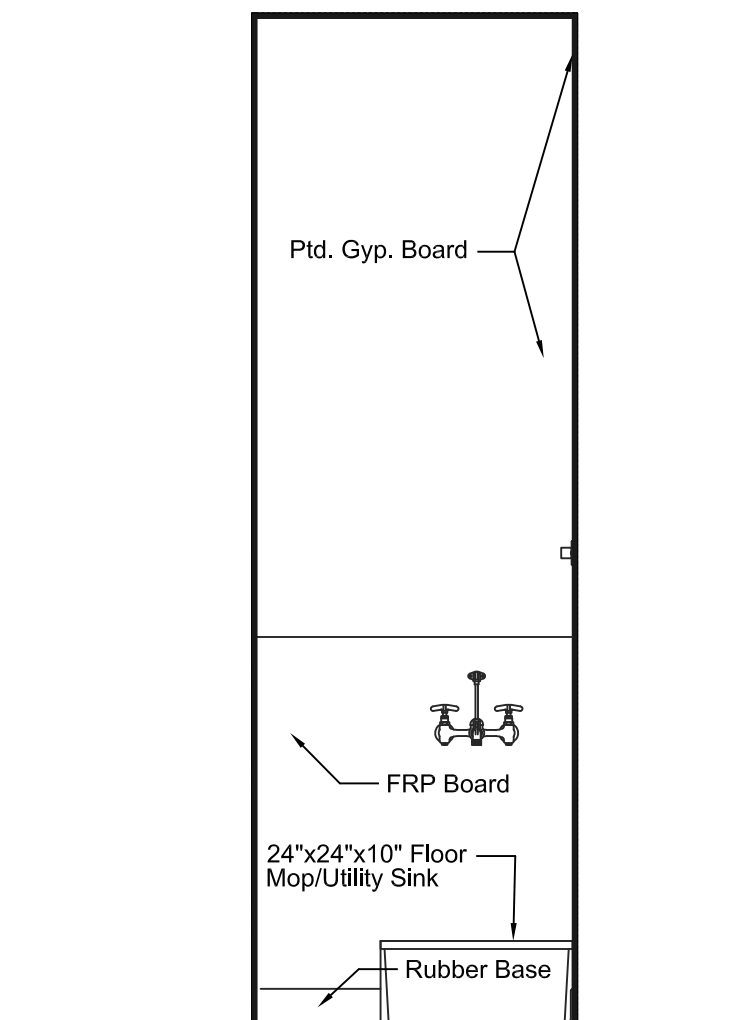
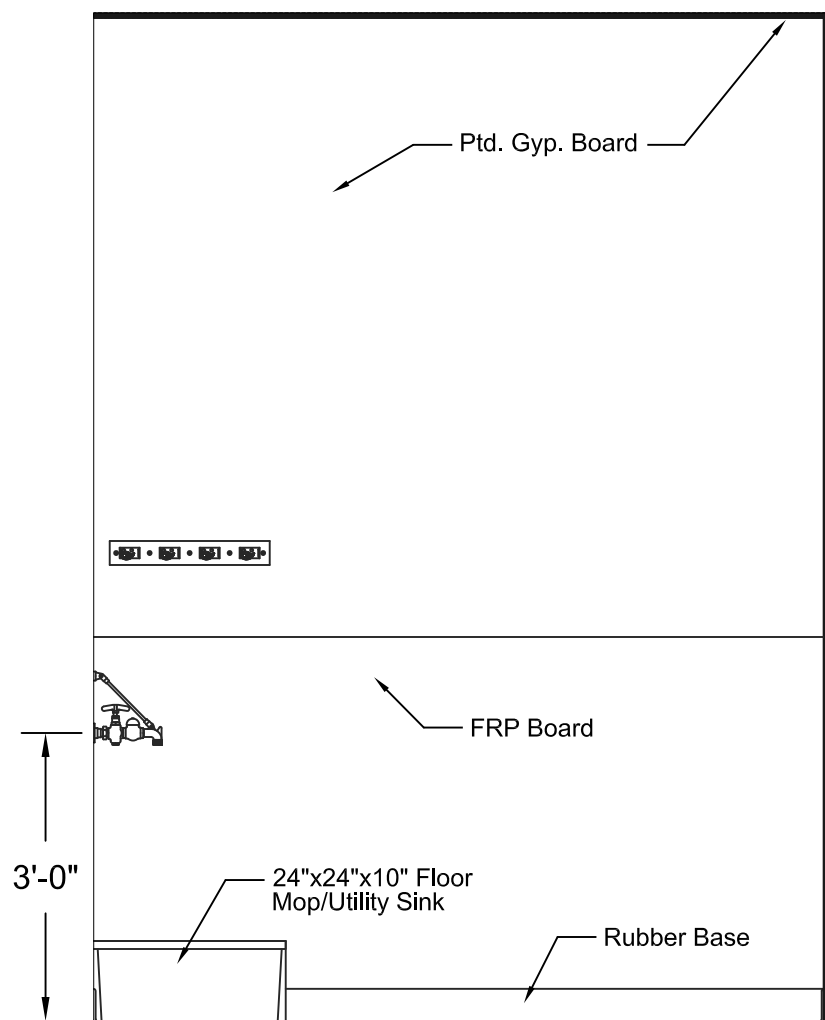
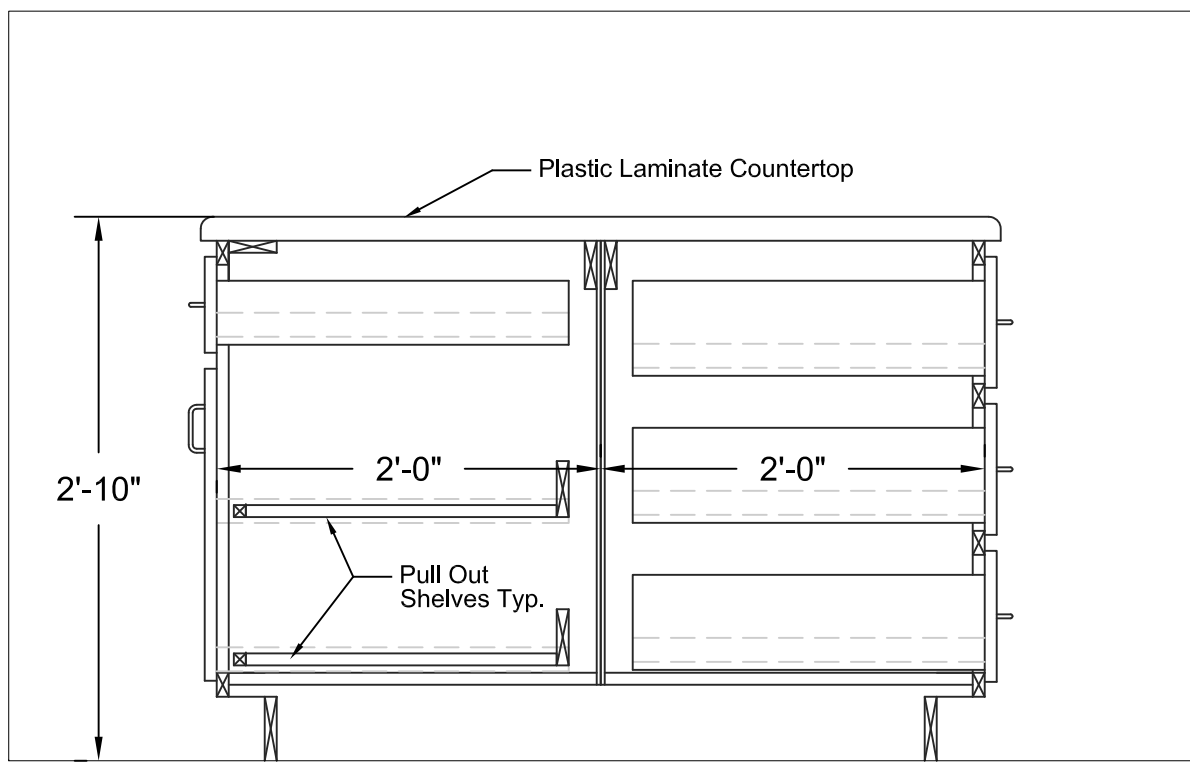
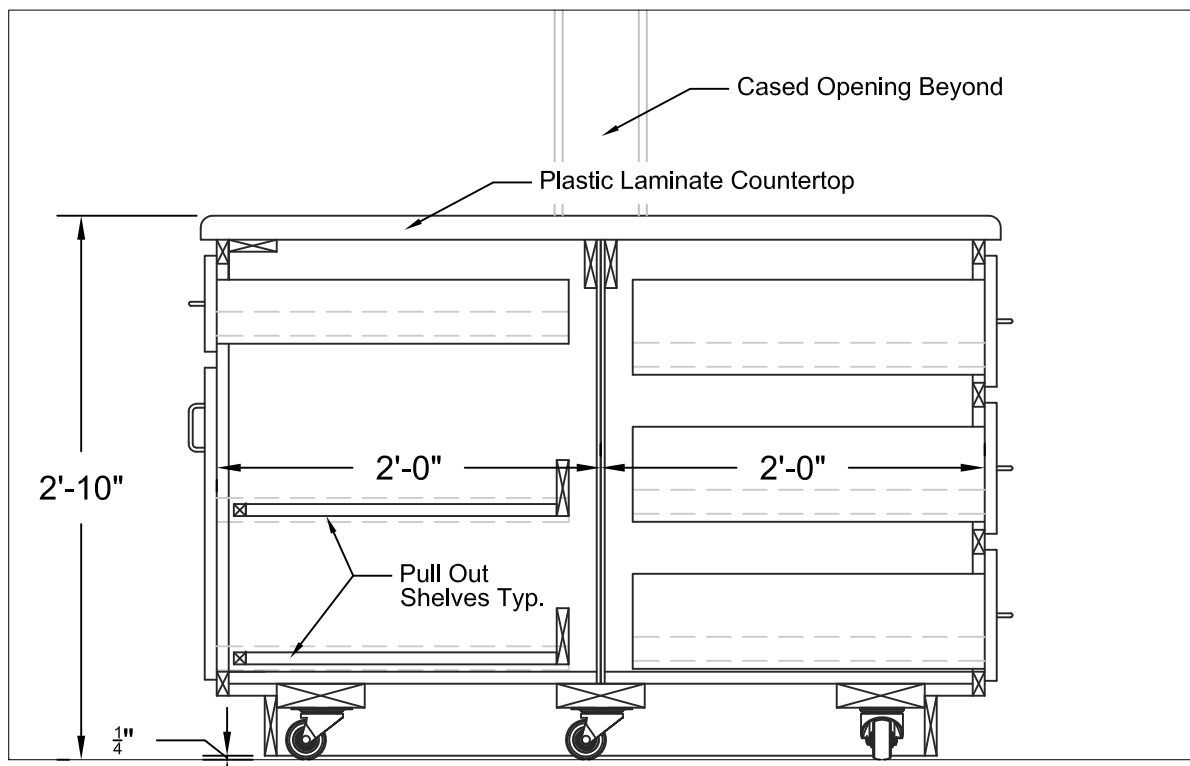
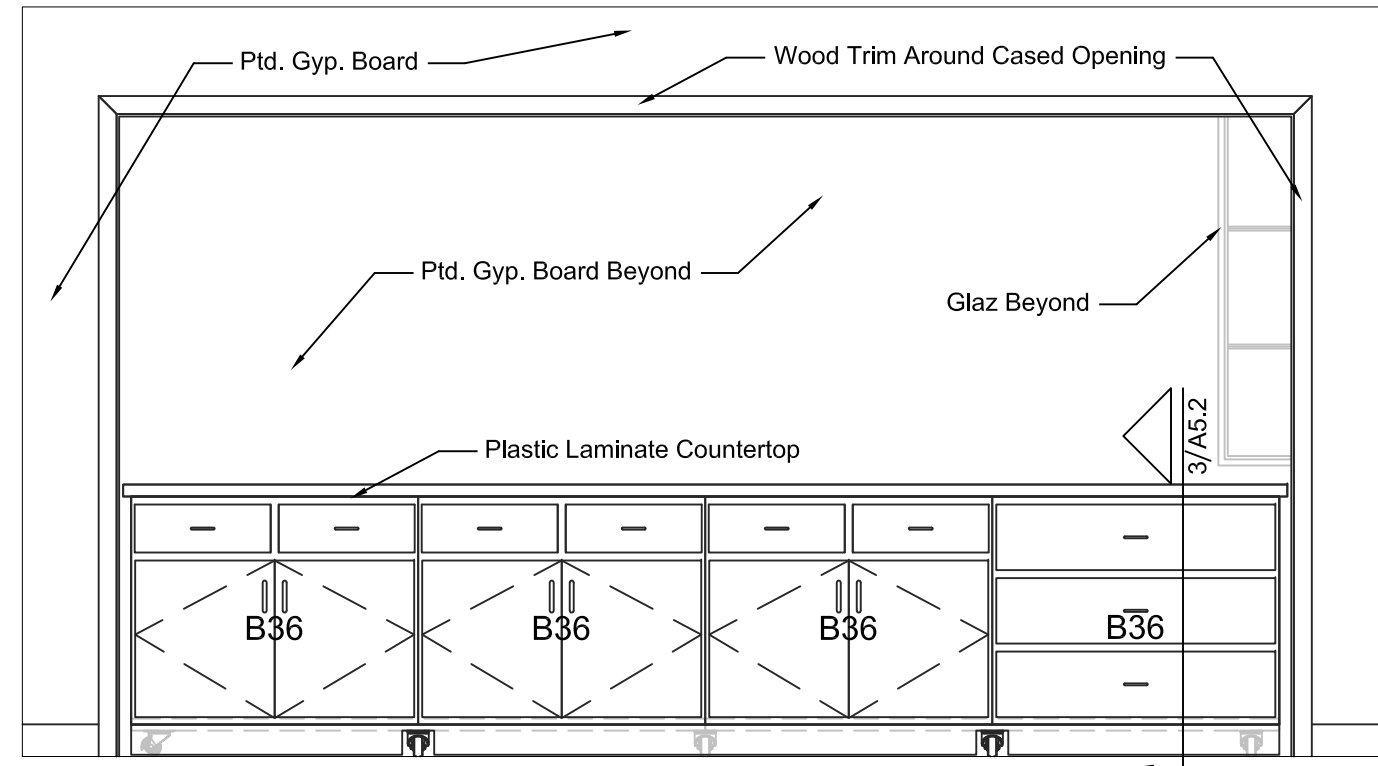
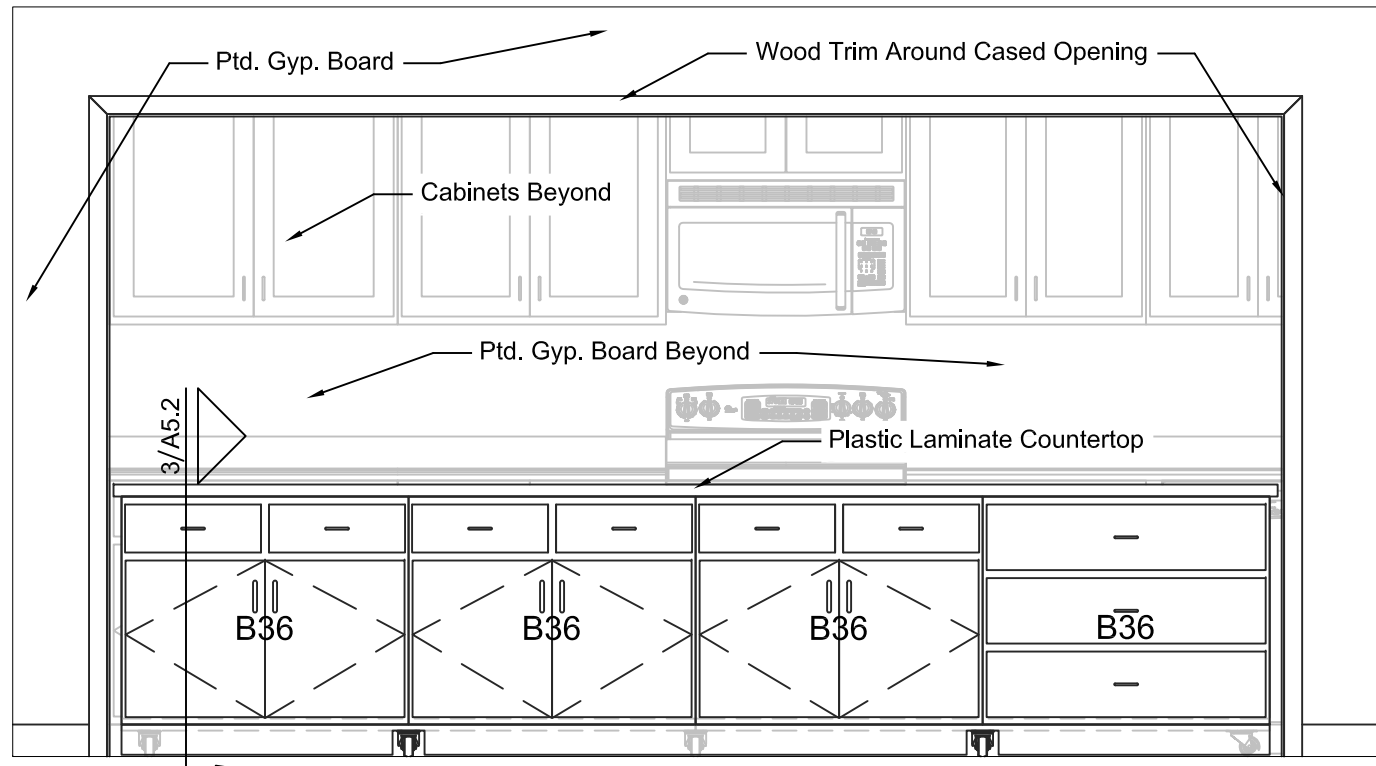
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SHEET NUMBER
A5.1
May 28, 2010

ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS



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DATE	BY

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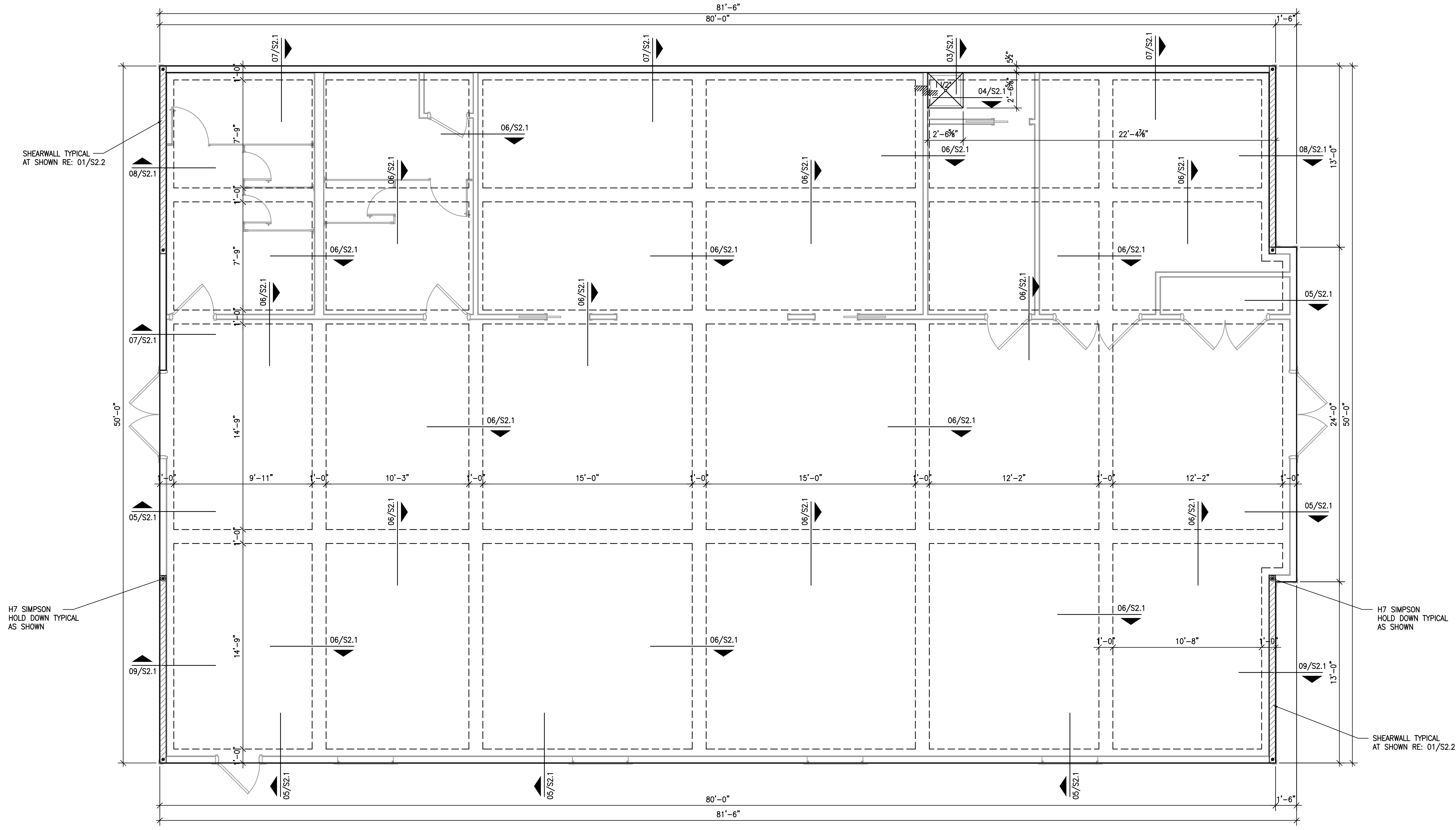


SHEET NUMBER

A5.2

May 28, 2010

ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

NOTE: VAPOR RETARDER SHALL BE 10 MIL MIN. WITH PERMEANCE OF LESS THAN 0.3 US PERMS (ASTM E 96) AND INSTALLED PER ASTM E 1634

NOTE: REFER TO 02/S2.1 FOR REQUIRED CHAIRS FOR SLAB REINFORCEMENT.

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION INCLUDING ALL SLAB DROPS

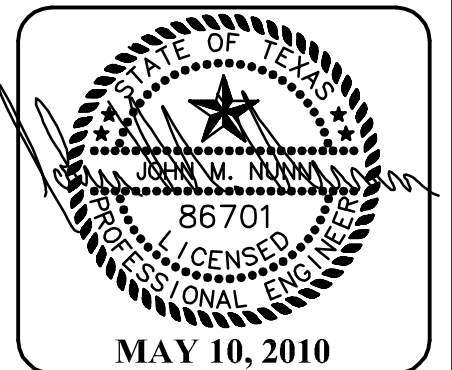
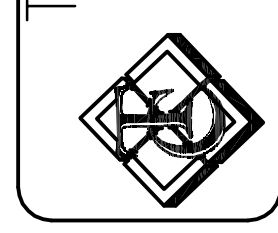
NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PAD PER THE STRUCTURAL NOTES, AND TO SET THE FINISH FLOOR ELEVATION FOR PROPER DRAINAGE.

HILL COUNTRY STRUCTURAL, INC.
STRUCTURAL ENGINEERING CONSULTANTS
603 FM 2093, SUITE 1202
FREDERICKSBURG, TEXAS 78624
(830) 990-4700 (830) 990-4718 (FAX)
jm@hillcountrystructural.com
TEXAS REGISTERED ENGINEERING FIRM F-7838

REVISIONS:	
DATE	BY

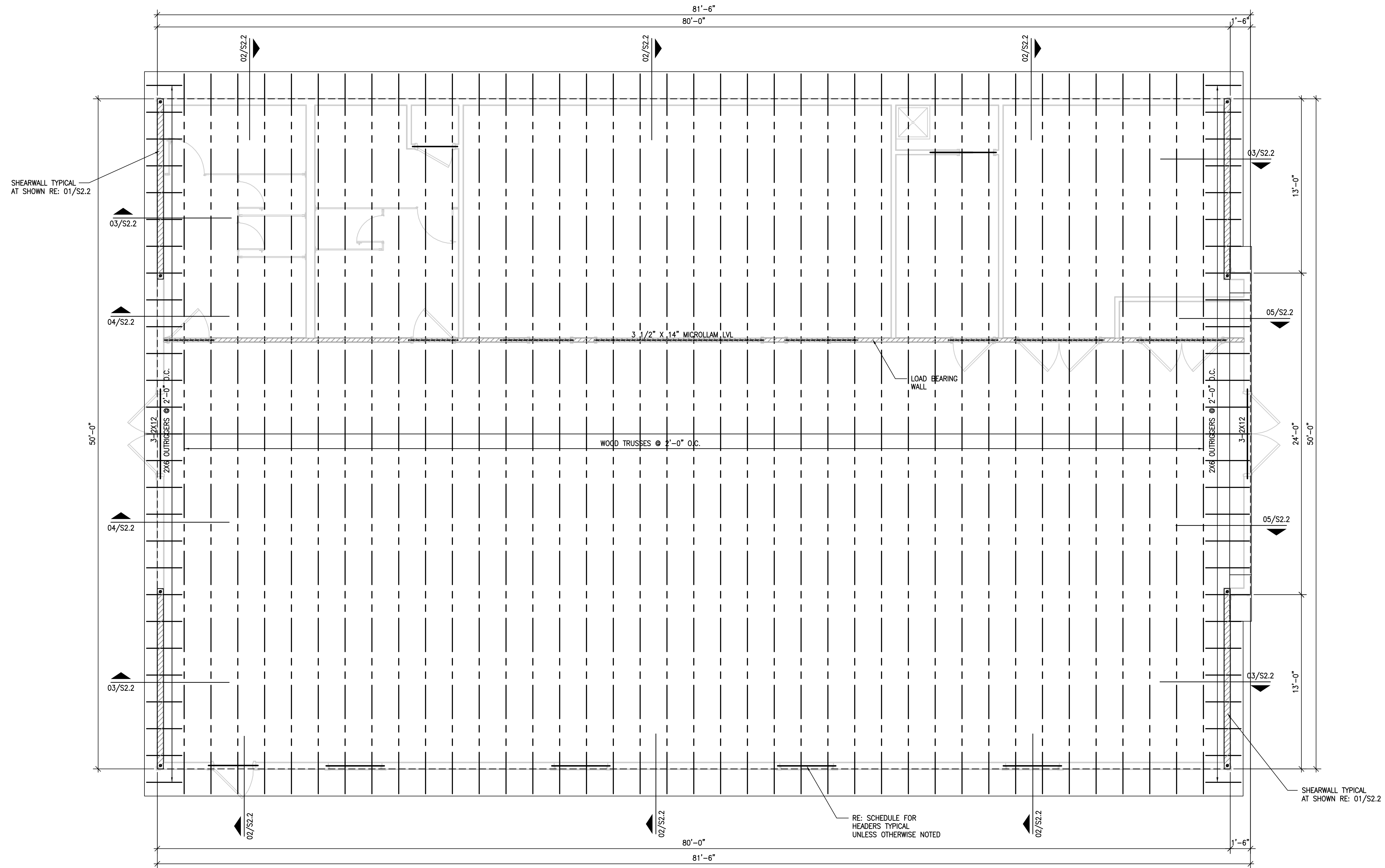
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SHEET NUMBER
S1.1

FOUNDATION PLAN



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

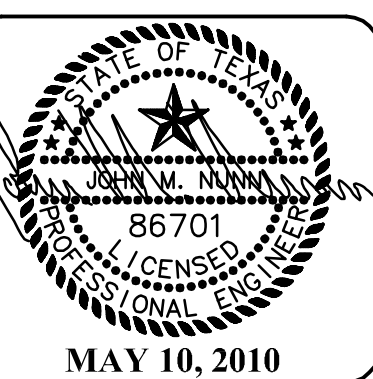
NOTE: TRUSS MANUFACTURER
TO REFER TP ARCH FOR HVAC
AREAS IN TRUSS PROFILE.

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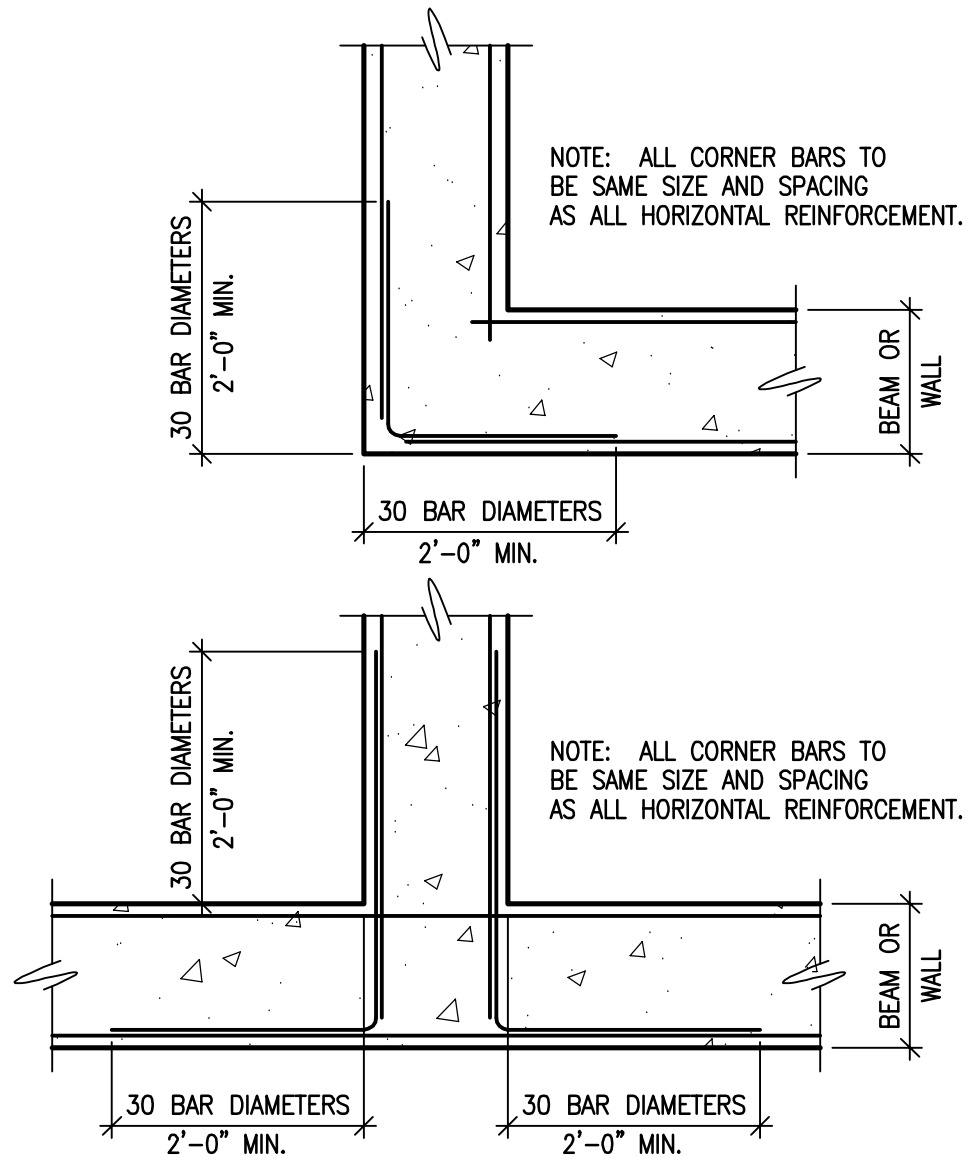
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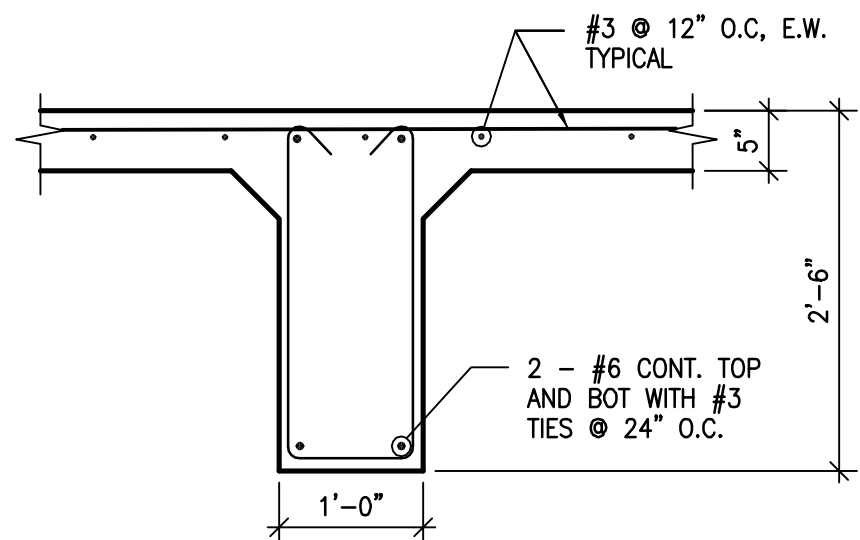
SHEET NUMBER

S1.2

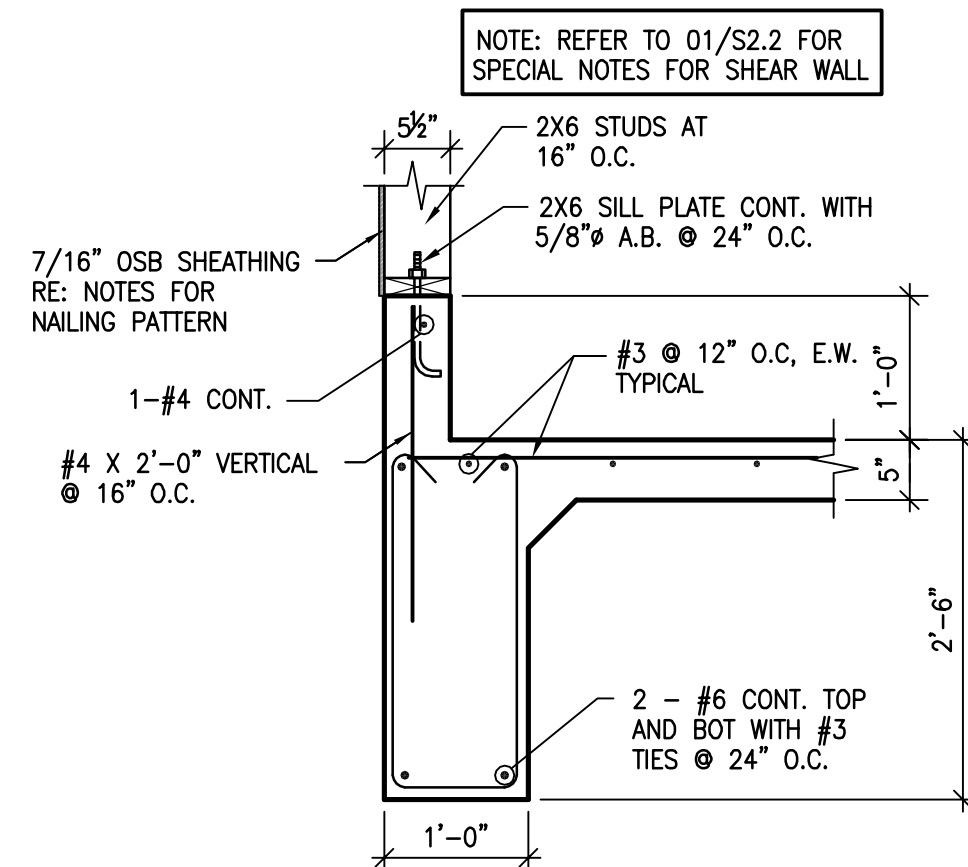
ROOF FRAMING PLAN



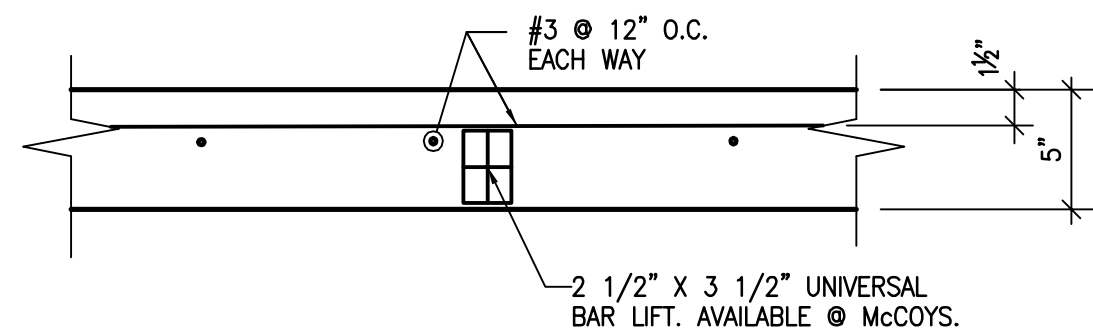
01 TYPICAL CORNER BAR DETAILS
SCALE: 3/4" = 1'-0"



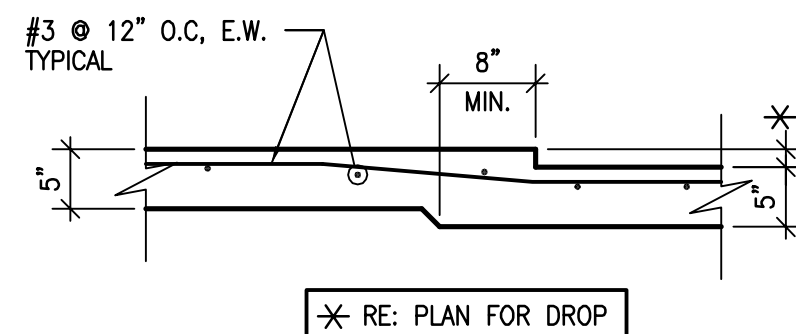
06 SECTION
SCALE: 3/4" = 1'-0"



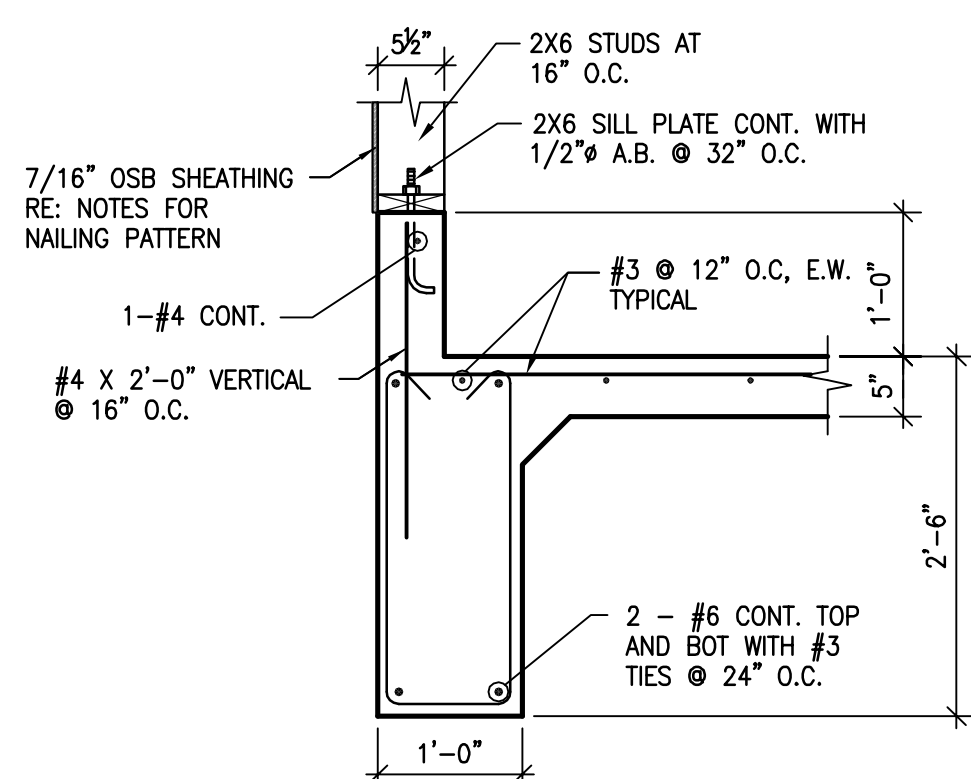
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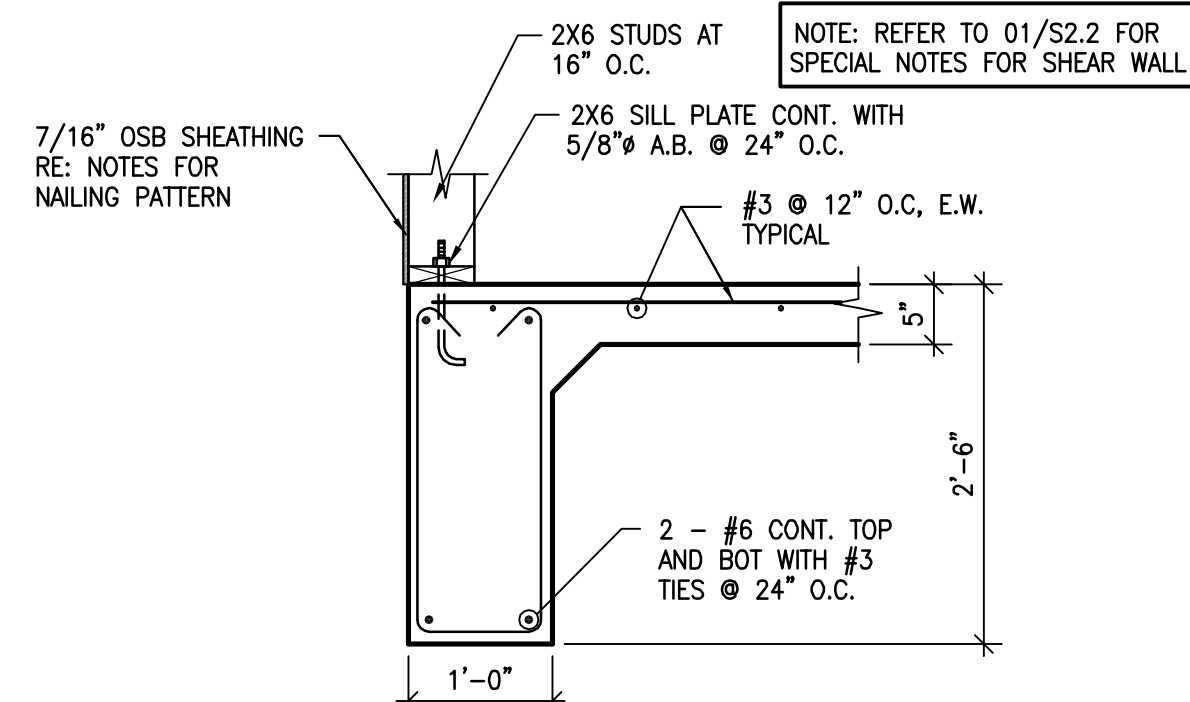
02 SLAB REINFORCEMENT PLACEMENT DETAIL
SCALE: 1 1/2" = 1'-0"



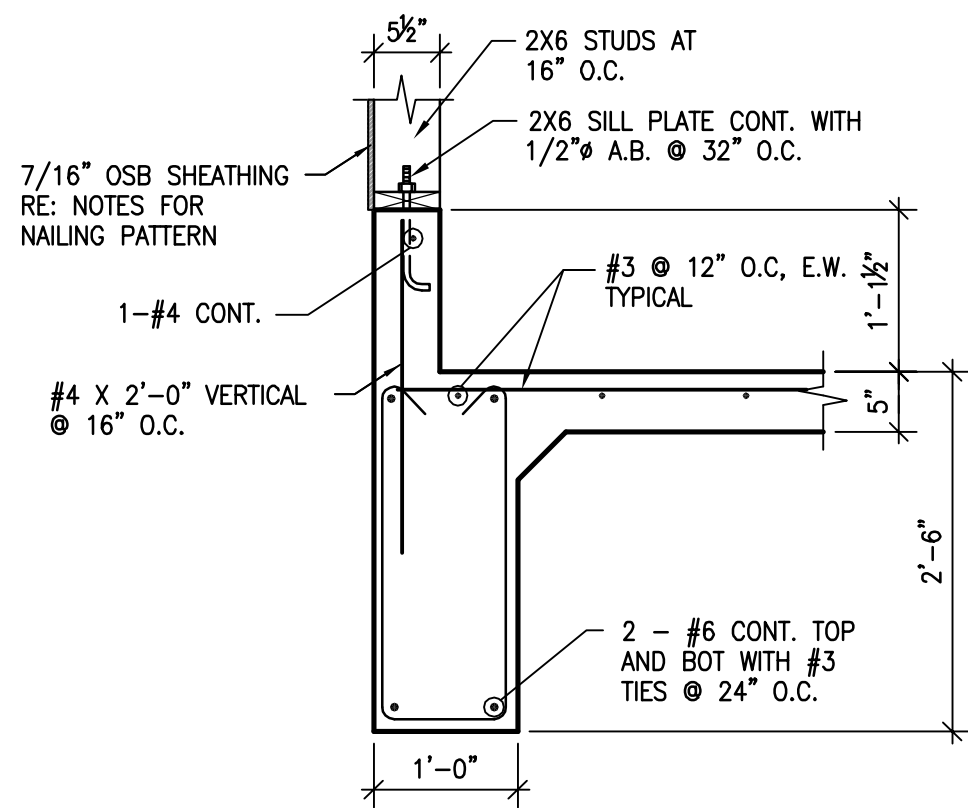
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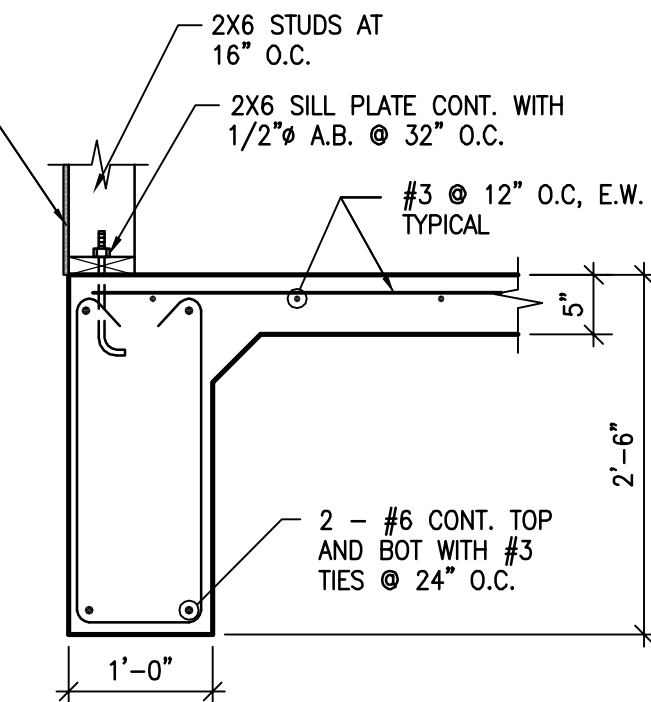
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SCALE: 3/4" = 1'-0"



09 SECTION
SCALE: 3/4" = 1'-0"



03 SECTION
SCALE: 3/4" = 1'-0"



05 SECTION
SCALE: 3/4" = 1'-0"

GENERAL CONDITIONS:

- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND DETAILS BEFORE FABRICATION OR CONSTRUCTION AND REPORT ANY DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS TO THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL COORDINATE ALL LEAVE-OUTS, SLEEVES AND OTHER SLAB PENETRATIONS BEFORE CONSTRUCTION.
- THE CONTRACTOR SHALL NOT PROCEED WITH FABRICATION OF STRUCTURAL ELEMENTS WITHOUT PRIOR REVIEW OF ALL SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.
- THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, NOR FROM ANY ERRORS IN THE SHOP DRAWINGS.

CODE & DESIGN SPECIFICATIONS:

GENERAL: 2009 INTERNATIONAL BUILDING CODE IS USED AS THE BASIC CODE DOCUMENT. THIS IS SUPPLEMENTED BY THE FOLLOWING ADDITIONAL CODES AND REFERENCES TO BE USED FOR DESIGN, DETAILING AND CONSTRUCTION.

- WOOD FRAMING: THE 2001 NATIONAL DESIGN SPECIFICATIONS FOR WOOD BY THE AMERICAN WOOD COUNCIL.
- STRUCTURAL CONCRETE: 2002 BUILDING CODE FOR REINFORCED CONCRETE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-2002).

DESIGN LOADS: (LIVE LOAD)

ROOF WIND	20 PSF
WIND	90 MPH - 3 SEC GUST
UPLIFT	EXPOSURE B
SOIL BEARING	12 PSF (NET)
	2500 PSF

STRUCTURAL CONCRETE

- TYPICAL CONCRETE SHALL BE HARDROCK CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH AS SPECIFIED BELOW AT 28 DAYS. FIVE SACKS (470 LBS) MINIMUM OF CEMENT PER CUBIC YARD SHALL BE USED. NO CALCIUM CHLORIDE OR FLY ASH SHALL BE PERMITTED IN THE CONCRETE MIX. READY-MIXED CONCRETE SHALL CONFORM TO ASTM C94. MIX DESIGN SHALL INCLUDE LOCATION WHERE CONCRETE IS TO BE USED.
- CONCRETE SLUMPS SHALL BE FIVE INCHES MAXIMUM AND THREE INCHES MINIMUM.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150. AGGREGATE SHALL CONFORM TO ASTM C33. MAXIMUM AGGREGATE SIZE SHALL BE ONE INCH.
- ALL CONCRETE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST A.C.I. SPECIFICATIONS.
- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 EXCEPT STIRRUPS AND TIES WHICH MAY BE GRADE 40.
- REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (A.C.I. 315) AND THE C.R.S.I. "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS", LATEST EDITION.
- REINFORCEMENT SPLICES SHALL LAP A MINIMUM OF 36 BAR DIAMETERS AND 18 INCHES MINIMUM UNLESS OTHERWISE NOTED. BAR SPLICES AT LOCATIONS OF HIGH STRESS ARE NOT PERMITTED. SPLICES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE SPACERS, CHAIRS, BOLSTERS, TIES AND OTHER ACCESSORIES CONFORMING TO THE REQUIREMENTS OF THE C.R.S.I.
- ALL GRADE BEAMS SHALL BE FORMED ON EXTERIOR SIDE.

FOUNDATION:

- THE FOUNDATION HAS BEEN DESIGNED USING THE INFORMATION AND RECOMMENDATIONS IN THE GEOTECHNICAL REPORT: PREPARED BY: ROCK ENGINEERING INC. REPORT NO.: G108399 - SUPPLEMENT NO. 1 DATED: APRIL 27, 2010
- THESE NOTES ARE A SUPPLEMENTAL SUMMARY OF THE SOILS REPORT. THE SOILS REPORT PROVIDED BY ROCK ENGINEERING LABORATORY, INC IS THE CONTROLLING CONSTRUCTION DOCUMENT AND ANY DEVIATIONS FROM THE SOILS REPORT SHALL BE APPROVED IN WRITING BY ROCK ENGINEERING LABORATORY, INC.
- BUILDING SITE SHALL BE DEFINED AS AN AREA FIVE FEET BEYOND THE BUILDING LINE. BUILDING SITE SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO REMOVE ALL BRUSH AND VEGETATION. EXCAVATE 3'-0" MINIMUM. THE TOP SIX INCHES OF SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED WHERE CUTTING IS REQUIRED.
- ANY FILL REQUIRED SHALL BE COMPACTED IN EIGHT INCH LIFTS AT, OR ABOVE, ITS OPTIMUM MOISTURE CONTENT. ALL FILL REQUIRED TO RAISE TO PROPER SUBGRADE SHALL BE SELECT FILL.
- ALL SOFT SPOTS SHOULD BE OVER-EXCAVATED AND REPLACED WITH SELECT FILL COMPACTED TO 95% RELATIVE COMPACTION.
- THE SELECT FILL SHOULD HAVE A P.I. BETWEEN 6 AND 15 AND A MAXIMUM LIQUID LIMIT OF 35. THE FILL SHOULD BE INSTALLED IN EIGHT INCH (MAXIMUM) LOOSE LIFTS AND UNIFORMLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT, OR SLIGHTLY ABOVE, ITS OPTIMUM MOISTURE CONTENT.
- GRADE BEAMS SHALL BEAR IN PROPERLY COMPACTED FILL OR UNDISTURBED NATURAL GROUND WHERE SUITABLE. A QUALIFIED GEOTECHNICAL ENGINEER SHOULD BE PRESENT AT THE SITE TO DETERMINE WHICH AREAS WILL REQUIRE OVER-EXCAVATION AND RECOMPACTION.

PREFABRICATED WOOD TRUSSES:

- PREFABRICATED WOOD TRUSS OUTLINES ARE SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND CONTROLLING ELEVATIONS.
- TRUSSES SHALL BE DESIGNED TO CARRY THE FOLLOWING LOADS:

ROOF LIVE LOAD	20 PSF
TOP CHORD DEAD LOAD	8 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
UPLIFT	12 PSF
SELF WEIGHT AND ANY APPLICABLE CONCENTRATED LOADS	
- ALL TRUSSES SHALL HAVE TRIANGULATED PANELS.
- ALL CONCENTRATED LOADS, INCLUDING REACTIONS, SHOULD OCCUR AT PANEL POINTS.
- THE MINIMUM TOP CHORD SIZE SHALL BE 2X6.
- ALL TRUSSES SHOULD HAVE HORIZONTAL RESTRAINT AT ONE END ONLY.
- THE TRUSS MANUFACTURER SHOULD SUBMIT BRACING LAYOUT FOR APPROVAL ALONG WITH TRUSS DESIGN.
- FRAMING MATERIAL SHALL BE NO. 2 GRADE KD SOUTHERN YELLOW PINE OR DOUGLAS FIR, MMG 19%. PROVIDE ALLOWABLE BENDING STRESS OF 1500 PSI WITH A MODULUS OF ELASTICITY OF 1,700,000 PSI, AS DETERMINED BY AN APPROVED LUMBER GRADING AGENCY.
- THE DESIGN AND FABRICATION OF ALL WOOD TRUSSES SHALL MEET THE FOLLOWING: "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS", BY NATIONAL FOREST PRODUCTS ASSOCIATION'S LATEST REVISIONS. "TIMBER CONSTRUCTION STANDARDS", BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, LATEST REVISIONS. "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE, LATEST REVISIONS.
- THE WOOD TRUSSES SHALL BE CUSTOM DESIGNED TO FIT THE DIMENSIONS AND LOADS INDICATED ON THE PLANS. ALL DESIGNS SHALL BE IN ACCORDANCE WITH ALLOWABLE VALUES ASSIGNED BY THE BUILDING CODE OFFICIAL. COMPLETE DESIGN CALCULATIONS SHOWING INTERNAL LAYOUT, MEMBER FORCES AND STRESS CONTROL POINTS ARE TO BE AVAILABLE UPON REQUEST FOR EACH TRUSS DESIGN. THE DESIGN OF THE TRUSSES ARE TO BE UNDER THE SUPERVISION OF A REGISTERED ENGINEER AND SHALL BE SEALED BY SAID ENGINEER.
- DRAWINGS SHALL BE FURNISHED BY THE MANUFACTURER SHOWING ALL CRITICAL DIMENSIONS FOR DETERMINING FIT AND PLACEMENT IN THE BUILDING AS WELL AS THE LOADS THE TRUSSES ARE DESIGNED TO SUPPORT. THESE DRAWINGS SHALL BE APPROVED PRIOR TO FABRICATION.
- THE TRUSSES IF STORED PRIOR TO ERECTION SHALL BE STORED IN A VERTICAL POSITION AND PROTECTED FROM THE WEATHER. THEY SHALL BE HANDLED WITH CARE SO THEY ARE NOT DAMAGED.
- THE TRUSSES ARE TO BE ERECTED AND INSTALLED IN ACCORDANCE WITH THE PLANS, THE APPROVED TRUSS DRAWINGS AND INSTALLATION SUGGESTIONS. TEMPORARY CONSTRUCTION LOADS WHICH CAUSE MEMBER STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. ERECTION BRACING IN ADDITION TO SPECIFIED BRIDGING IS TO BE PROVIDED TO KEEP THE TRUSS STRAIGHT AND PLUMB AS REQUIRED TO ASSURE ADEQUATE LATERAL SUPPORT FOR THE INDIVIDUAL TRUSS AND THE ENTIRE SYSTEM UNTIL THE SHEATHING MATERIAL HAS BEEN APPLIED.
- THE CONTRACTOR SHALL GIVE NOTIFICATION PRIOR TO ENCLOSING THE TRUSSES TO PROVIDE OPPORTUNITY FOR INSPECTION OF INSTALLATION.

WOOD FRAMING:

- ALL WALL SHEATHING SHALL BE 7/16" OSB NAIL WITH 10d NAILS @ 6" O.C. AT ALL EDGE SUPPORTS AND 10d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS. PROVIDE STANDARD EDGE CLIPS AT MID-SPAN BETWEEN EACH SUPPORT. ALL ROOF DECK SHALL BE 5/8" OSB AND NAILED PER THE ABOVE REQUIREMENTS. REFER TO 01/S2.2 FOR SPECIAL NAILING PATTERN INFORMATION AT TYPICAL SHEAR WALL.
- ALL ROOF JOISTS AND BEAMS TO BE GRADE STAMPED PER W.C.L.B. RULES AND BE OF SOUTHERN YELLOW PINE NO. 2 (K.D) USED AT 15% MAX. MOISTURE CONTENT. FRAMING CONNECTORS SHALL BE SIMPSON STRONG-TIE AND SHALL BE BUILDING CODE APPROVED FOR THE TYPE OF INSTALLATION INDICATED.
- ALL 2 X STUD FRAMING SHALL BE S-P-F STUD GRADE USED AT 19% MAXIMUM MOISTURE CONTENT AND SHALL MEET THE MINIMUM REQUIREMENTS AS FOLLOWS:

Fb = 1500 PSI
E = 1.6 X 10 ⁶ PSI
- ALL PLATES, LEDGERS AND HEADERS SHALL BE S-P-F NO. 2, SURFACED DRY, USED AT 19% MAXIMUM MOISTURE CONTENT. FRAMING MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE WOLMANIZED.
- ALL SILL PLATES SHALL BE SOUTHERN YELLOW PINE NO. 2 (K.D.) AND SHALL BE PRESSURE TREATED FOR MOISTURE RESISTANCE.
- ALL NAILING SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE.
- ALL GLU-LAM BEAMS SHALL BE CONNECTED WITH STANDARD "STRONG-TIE" GLU-LAM CONNECTIONS, UNLESS DETAILED OTHERWISE.
- PROVIDE DOUBLE STUDS EACH SIDE OF ALL OPENINGS. PROVIDE DOUBLE JOIST HEADER ABOVE EVERY OPENING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.

OPENING WIDTH	HEADER SIZE
UP TO 2'-8"	2-2 X 8 OR 3-2 X 6
2'-8 TO 3'-8"	2-2 X 10 OR 3-2 X 8
3'-8 TO 6'-0"	2-2 X 12 OR 3-2 X 10

HILL COUNTRY STRUCTURAL, INC.

STRUCTURAL ENGINEERING CONSULTANTS

603 FM 2093, SUITE 1202
FREDERICKSBURG, TEXAS 78624
(830) 990-4700 (830) 990-4716 (FAX)
jm@hillcountrystructural.com
TEXAS REGISTERED ENGINEERING FIRM F-7688

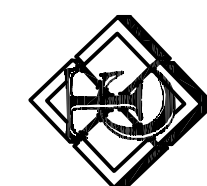
REVISIONS:	
DATE	BY

FIRST UNITED METHODIST CHURCH

201 N. ESPLANADE STREET
KARLES CITY, TEXAS 78118
(830) 780-3307

TIMBERCON CONSTRUCTION, INC

1241 UNIVERSAL CITY BLVD.
UNIVERSAL CITY, TX 78148
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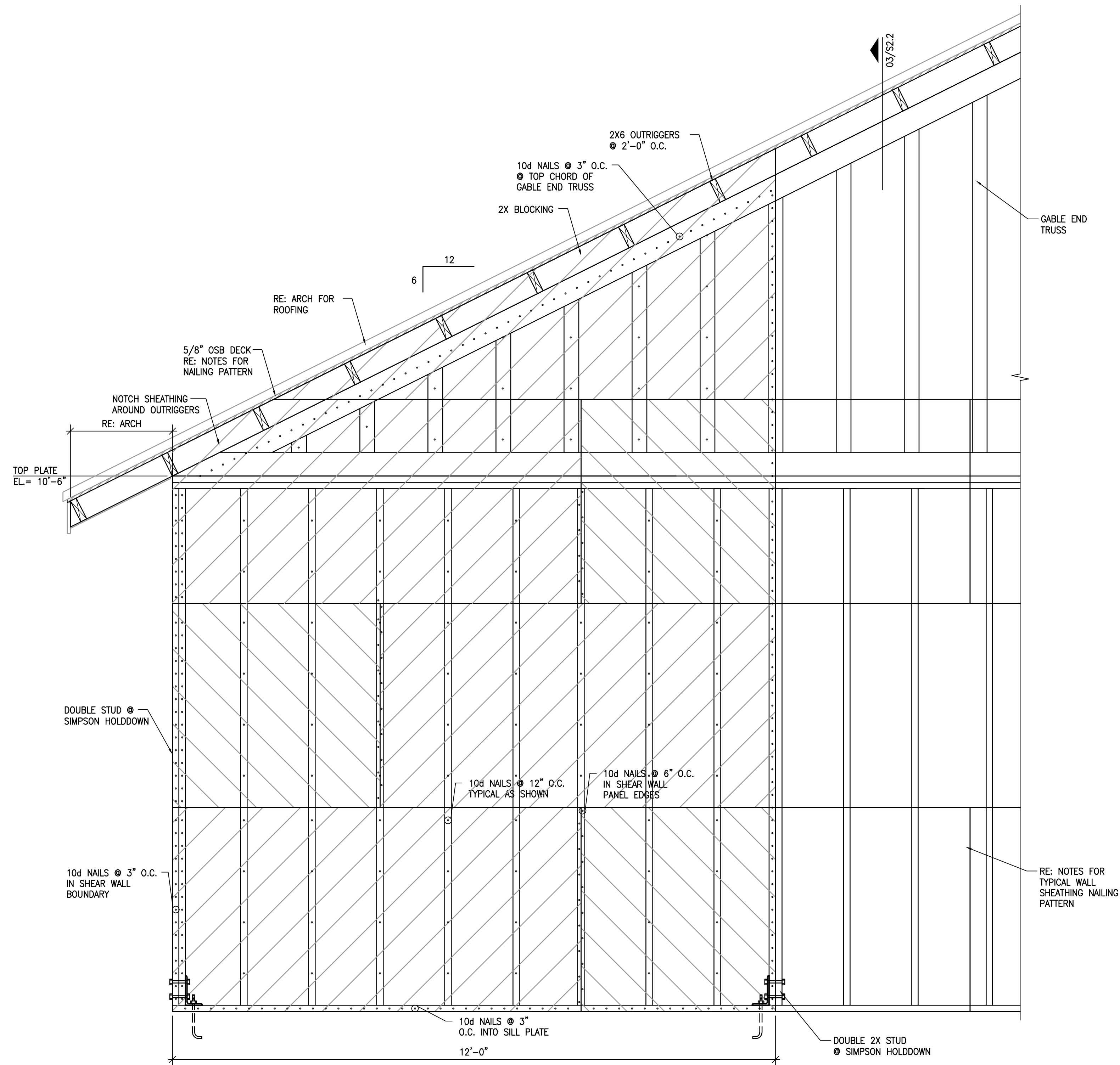


MAY 10, 2010

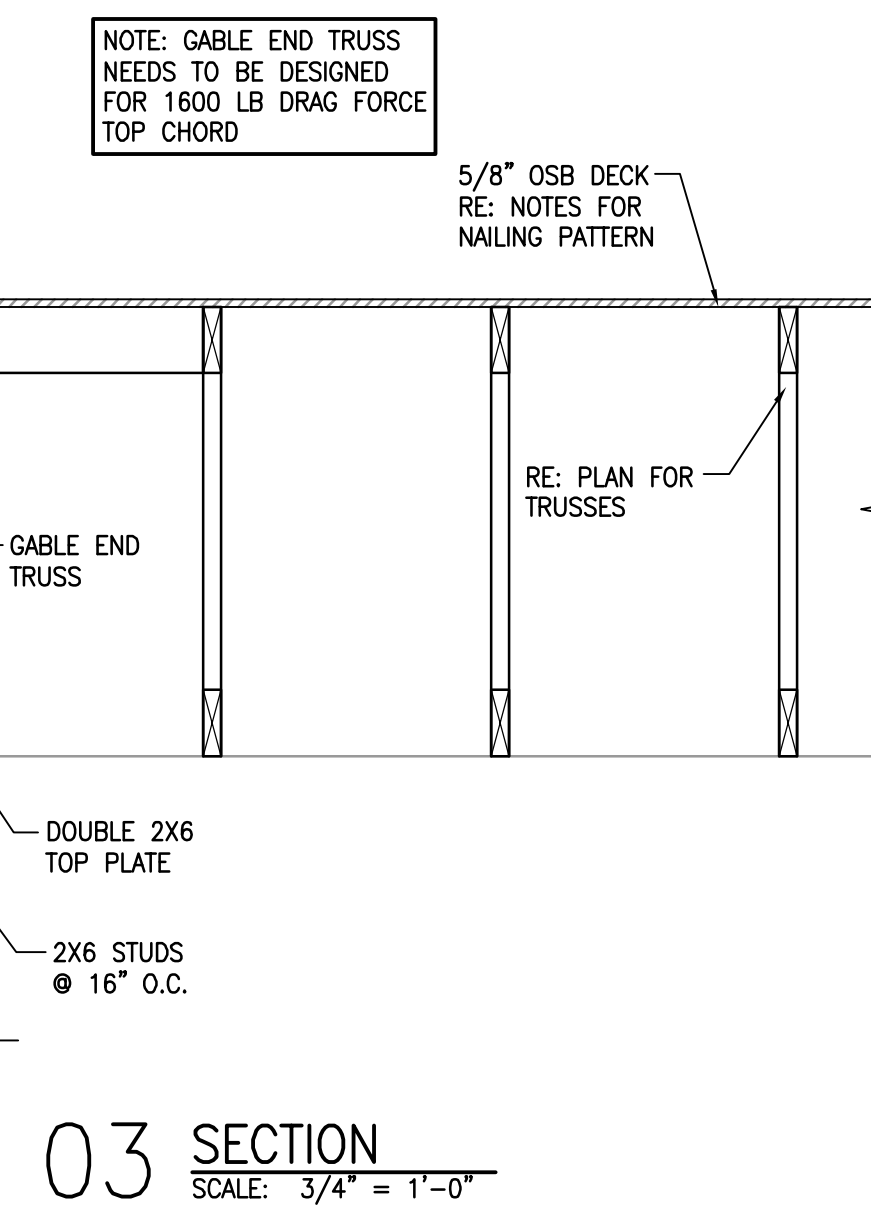
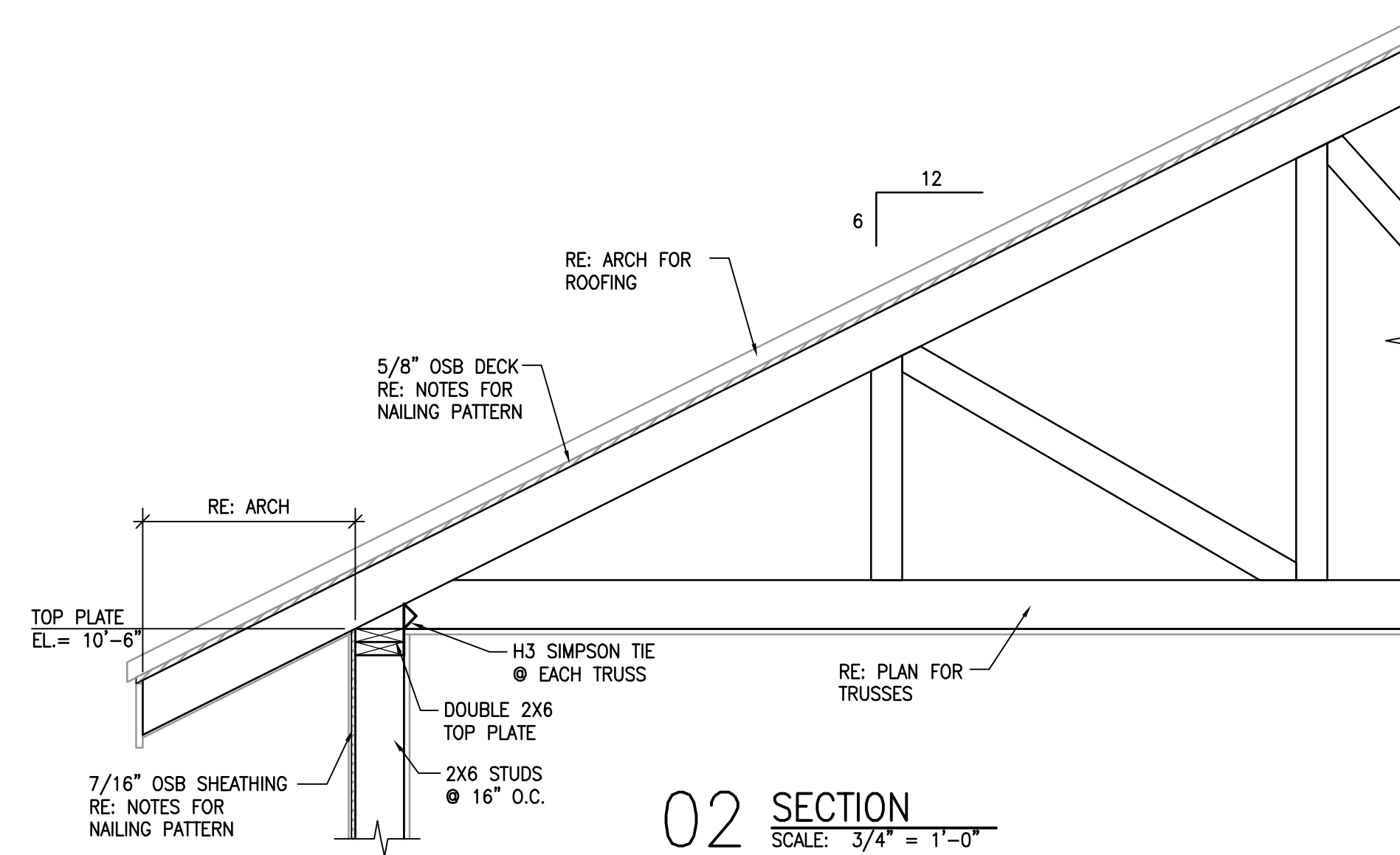
SHEET NUMBER

S2.1

FOUNDATION & FRAMING SECTIONS & GENERAL NOTES



01 SECTION
SCALE: 3/4" = 1'-0"

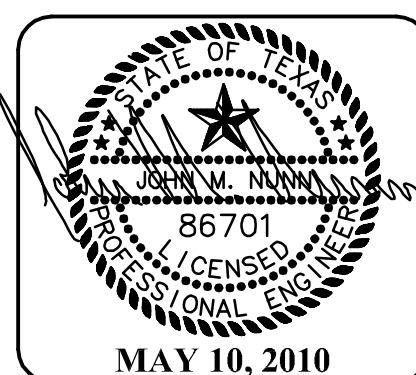
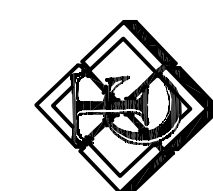


03 SECTION
SCALE: 3/4" = 1'-0"

REVISIONS:	
DATE	BY

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201 N. ESPLANADE STREET
KARNES CITY, TEXAS 78118
(830) 780-3307

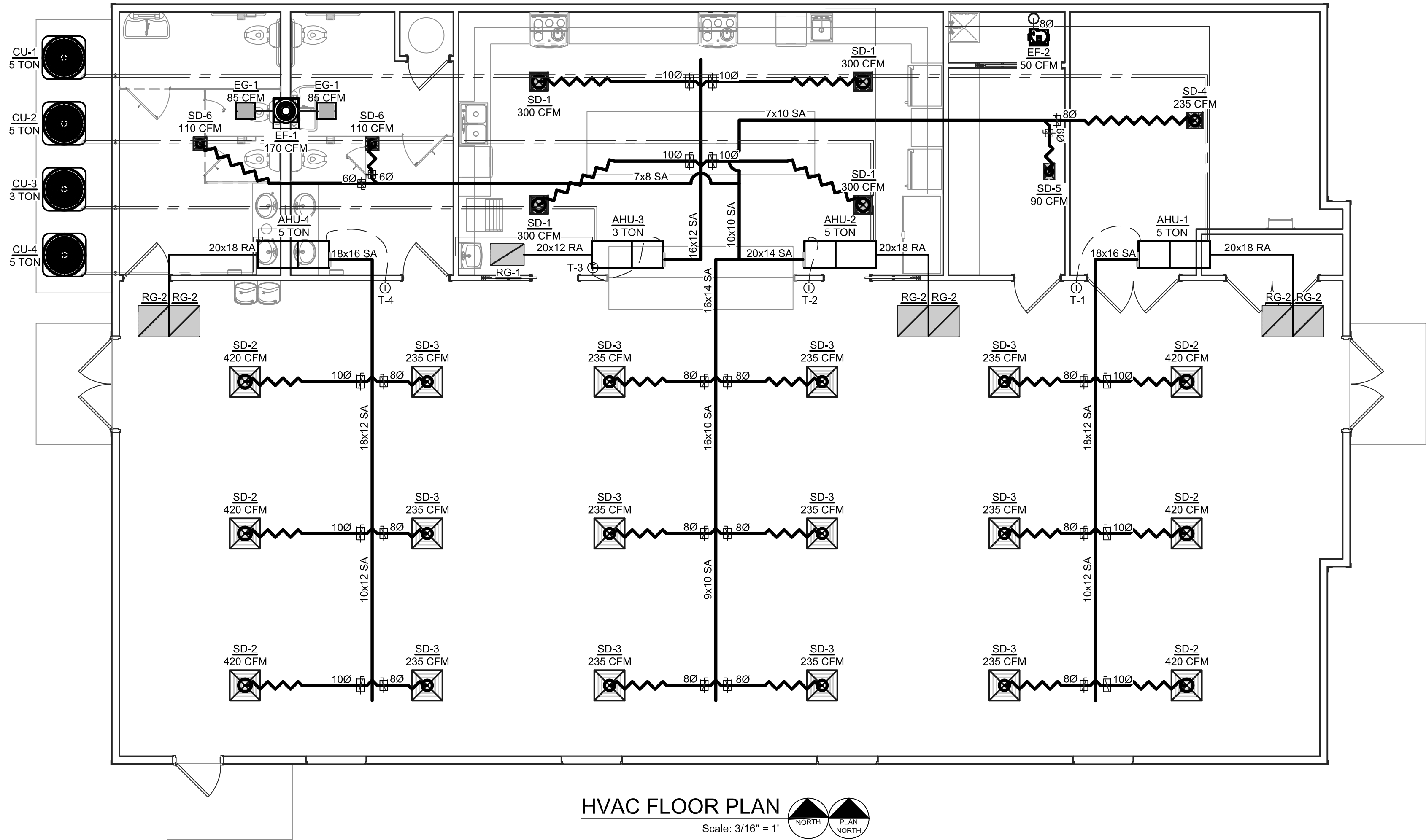
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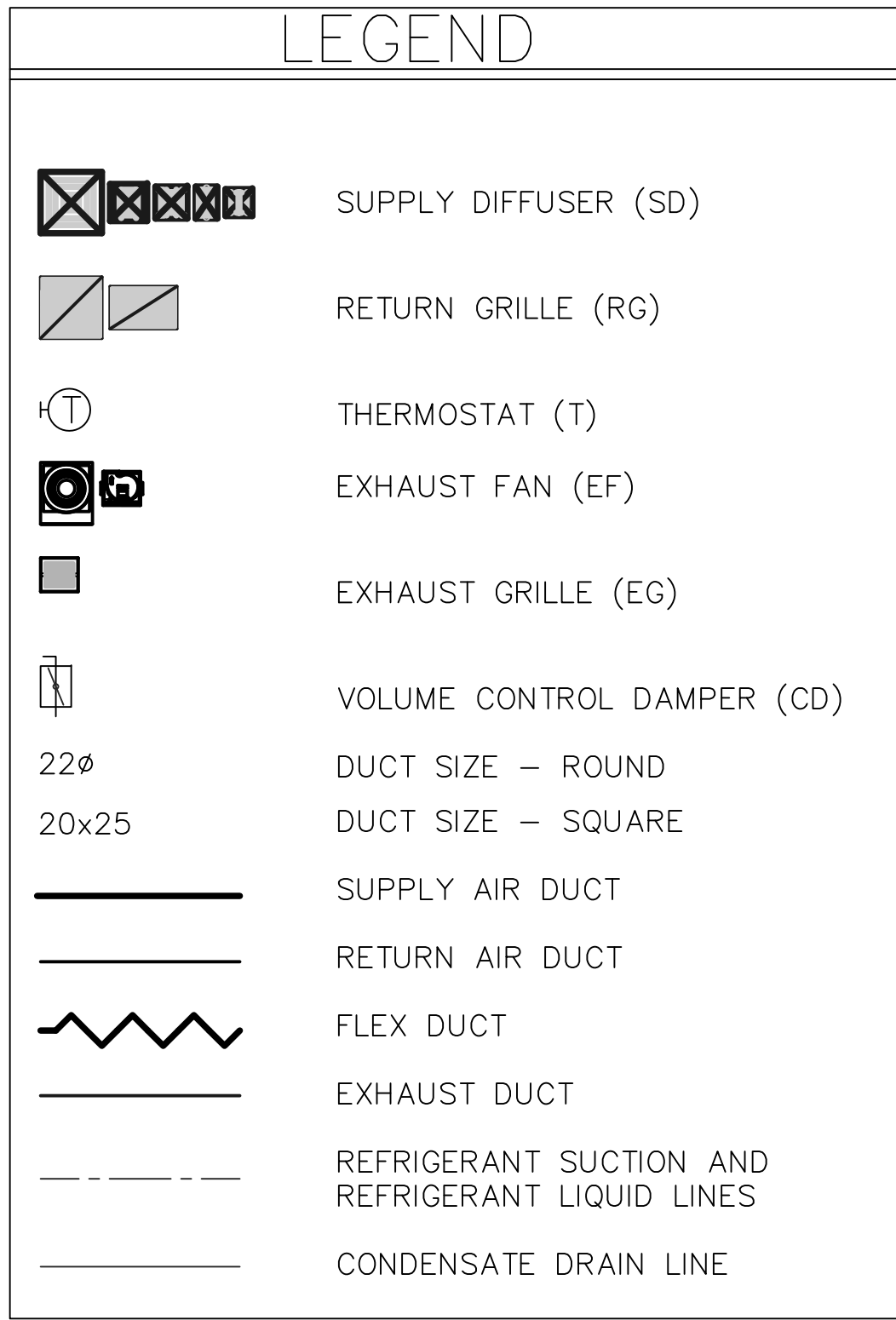
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S2.2

FRAMING SECTIONS & NOTES

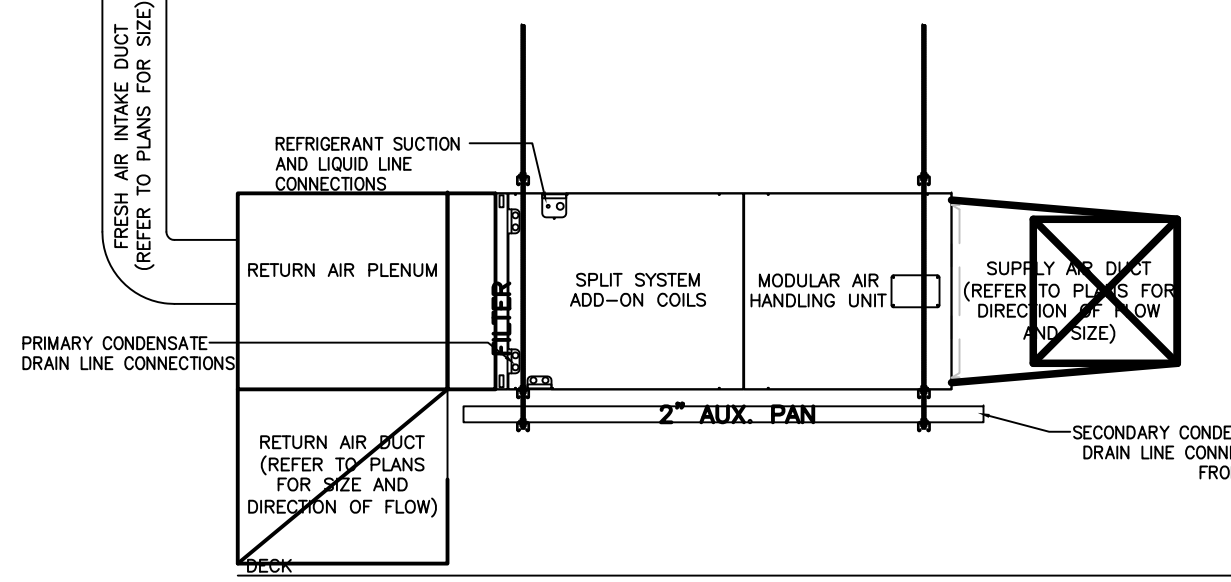
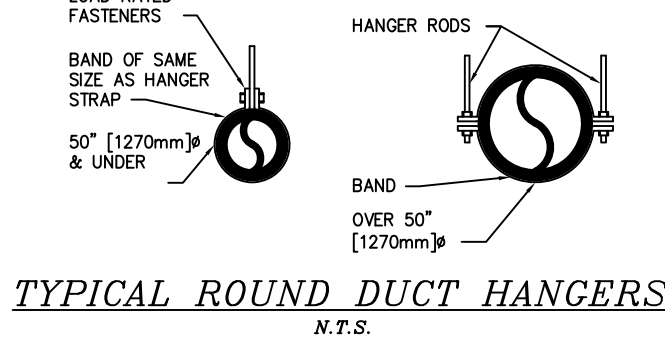
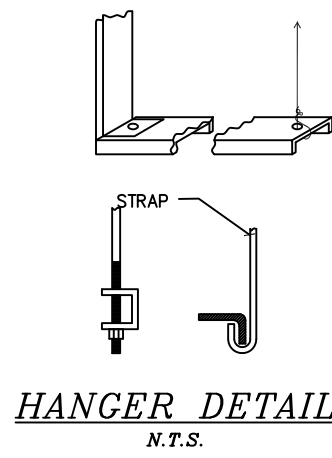


HVAC FLOOR PLAN
Scale: 3/16" = 1'

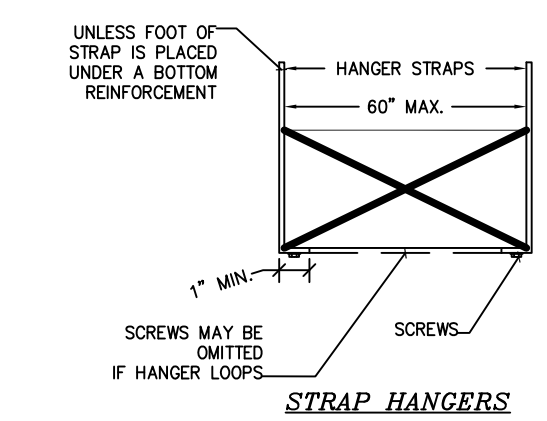


MECHANICAL GENERAL NOTES:

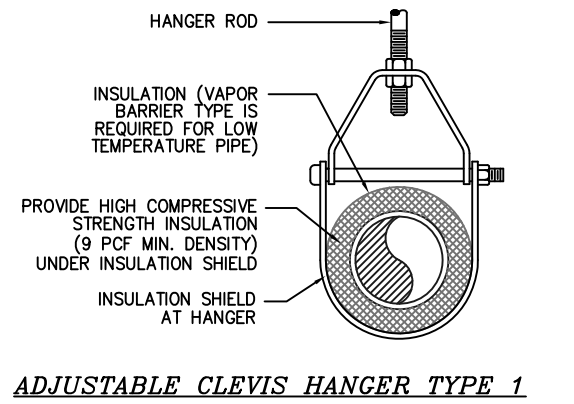
- THE DRAWINGS IN THIS SECTION ARE DIAGRAMMATIC AND ARE NOT INTENDED TO DEFINE QUANTITIES, EXACT LOCATIONS OR EXACT COPIED REQUIREMENTS. DRAWINGS SHALL NOT BE SCALED. EXACT STATE AND LOCAL CODE REQUIREMENTS SHALL BE VERIFIED BY AND ARE THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR. ANY INFORMATION WHICH DIRECTLY CONFLICTS WITH ANY OF THESE CODES OR ANY DISCREPANCIES FOUND ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR RECTIFICATION.
- HVAC PERMITS SHALL BE APPLIED FOR, OBTAINED, AND PAID FOR BY THE HVAC SUBCONTRACTOR.
- ALL EXHAUST FANS, RANGE HOODS, OR OTHER MEANS OF DISCHARGE, SHALL BE DUCTED TO THE REAR ROOF FACE OR AS OTHERWISE NOTED BY THE DRAWINGS. ALL NECESSARY DUCTING, ROOF AND WALL ACCESSORIES, OR OTHER RELATED ITEMS, SHALL BE PROVIDED FOR AND INSTALLED BY THE SUBCONTRACTOR. PROVIDE COLLAR FLASHING AT ALL ROOF PENETRATIONS.
- INSULATION
 - PROVIDE 2" THICK FIBERGLASS INSULATION AROUND ALL DUCTWORK IN ATTIC (IF APPLICABLE). INSULATION SHALL BE JACKETED AND ALL JOINTS TAPED IN SUCH A MANNER SO AS NOT TO REDUCE INSULATION THICKNESS.
 - SUPPLY AND RETURN AIR PLENUMS SHALL BE LINED WITH 1/2" COATED HARDBOARD FIBERGLASS DUCT LINER WITH ALL JOINTS MECHANICALLY FASTENED AND TAPED. 1-1/2" THICK RIGID FOIL FACED FIBERGLASS DUCT BOARD IS ALSO ACCEPTABLE (OWENS CORNING OR EQUAL).
 - ALL HOLES, BREAKS, AND JOINTS SHALL BE SEALED WITH ALUMINUM FOIL TAPE. SUBCONTRACTORS SHALL ENSURE A CONTINUOUS VAPOR BARRIER, AND REINFORCE ALL JOINTS AS MAY BE REQUIRED TO PREVENT SEPARATION.
- PROVIDE RETURN AIR DUCTS OR PLENUMS AS SHOWN ON THE DRAWINGS. ALL RETURN AIR PLENUMS SHALL BE SEALED. ADDITIONALLY, UNDERCUT ALL HABITABLE ROOM DOORS BY 1" FOR ADDITIONAL RETURNS.
- FLEXIBLE DUCTWORK
 - ALL FLEXIBLE DUCT AND CONNECTION SHALL CONFORM TO REQUIREMENTS OF UL 181 FOR CLASS 0 OR CLASS1 AIE DUCTS AND SHALL BE SO IDENTIFIED
 - FLEX DUCT LENGTH SHALL BE LIMITED TO 14' MAXIMUM.
 - FLEX DUCT AND FLEX DUCT CONNECTIONS SHALL NOT PASS THROUGH ANY WALL, FLOOR, CEILING OR FIRE RESISTANCE RATED ASSEMBLY.
 - ALL FLEXIBLE DUCTWORK TO HAVE AN R-VALUE OF R-6 OR BETTER.
- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
- DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
- WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
- WALL TYPE EXHAUST REGISTERS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7" (178mm) MIN. ABOVE FINISHED FLOOR.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.



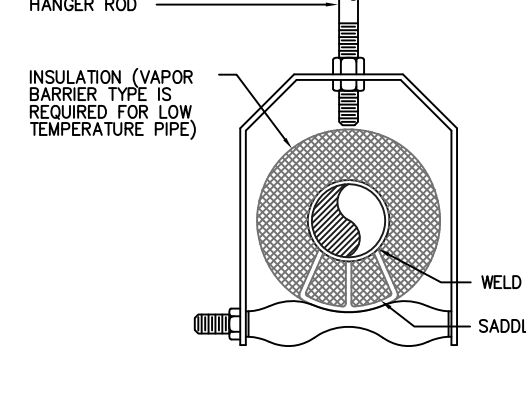
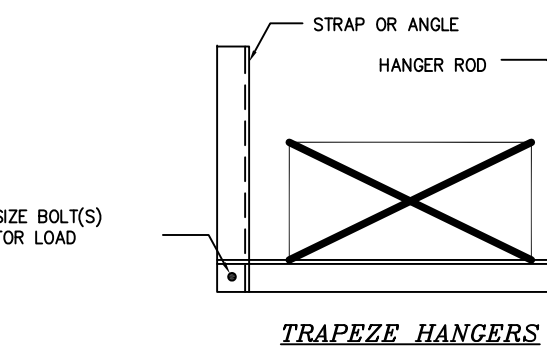
HORIZONTAL AIR HANDLER DETAIL
N.T.S.



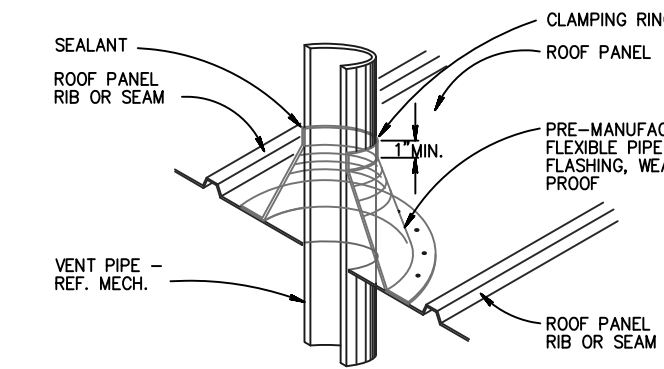
TYPICAL SQUARE DUCT HANGERS
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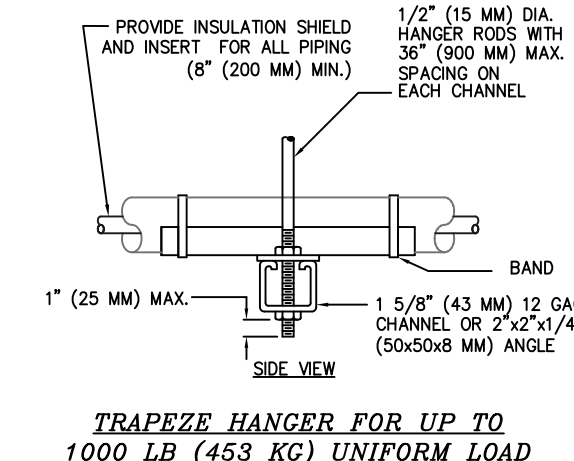
ADJUSTABLE CLEVIS HANGER TYPE 1
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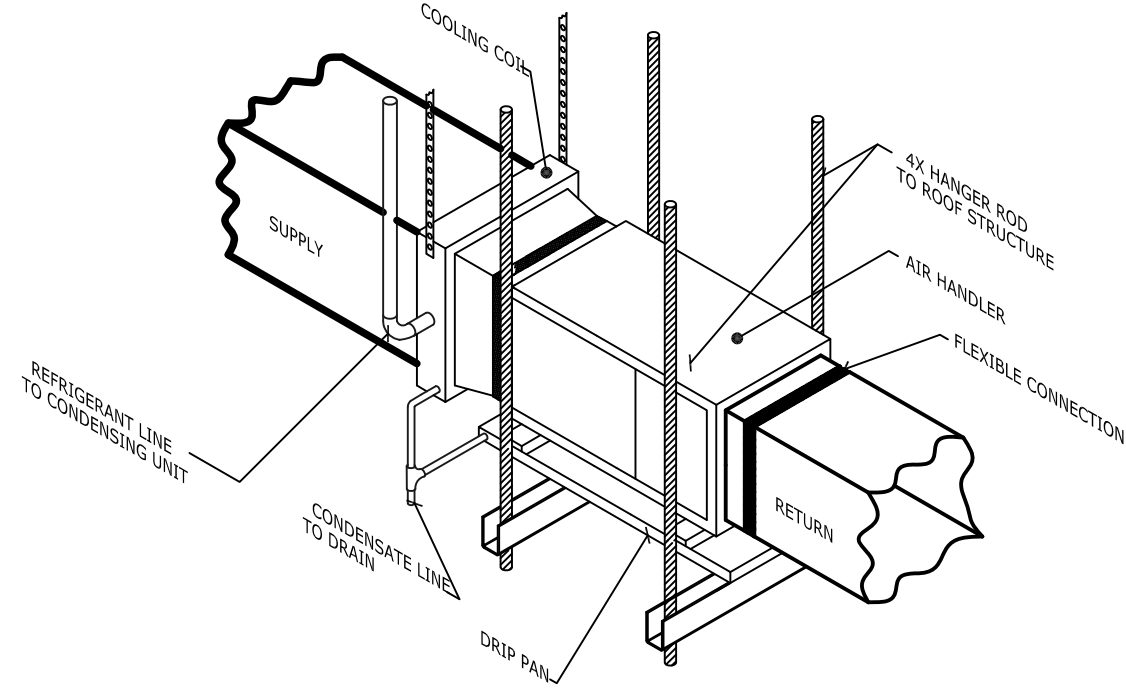
ADJUSTABLE CLEVIS HANGER TYPE 43
N.T.S.



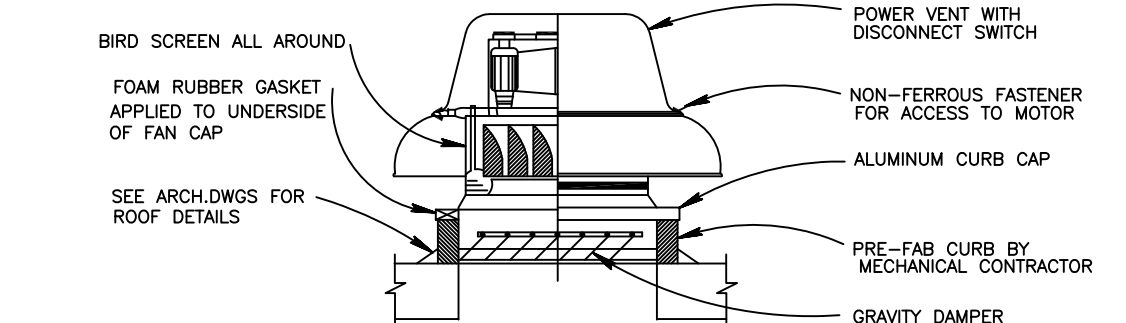
ROOF VENT DETAIL
N.T.S.



TYPICAL PIPE HANGERS
N.T.S.



TYPICAL HORIZONTAL AIR HANDLER WITH DRAIN PAN DETAIL (ISOMETRIC)
N.T.S.



ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S.

HVAC SYSTEMS											
MARK	MANUFACTURER	MODEL	TYPE	APPLICATION	NOMINAL TONS	MBH COOLING	MBH HEAT	NOMINAL CFM	VOLTZ-PH-HZ	MCA	MOCP HACR-CB
AHU-1, 2	YORK	MA20DN21	MODULAR AIR HANDLER	HORIZONTAL RIGHT	5	50.96	36.90	2000	208/230-3-40	43.5	45
		MC62D3XH1	MULTI-POSITION EVAPORATOR COIL								300
AHU-4	YORK	MA20DN21	MODULAR AIR HANDLER	HORIZONTAL LEFT	5	50.96	36.90	2000	208/230-3-40	43.5	45
		MC62D3XH1	MULTI-POSITION EVAPORATOR COIL								300
AHU-3	YORK	AHP36C3XH21	SINGLE PIECE AIR HANDLER	HORIZONTAL LEFT	3	35.14	24.60	1200	208/230-3-40	40	40
CU-1, 2, 4	YORK	YHJD09S43S3	HEAT PUMP CONDENSING UNIT	N/A	5	50.96	58.00	2000	208/230-3-40	23.9	40
CU-3	YORK	YHJD36S43S3	HEAT PUMP CONDENSING UNIT	N/A	3	35.14	36.60	1200	208/230-3-40	12.9	20

AIR DISTRIBUTION DEVICES														
NOTES:														
1. SYMBOL KEY - FIRST LETTER: S - SUPPLY R - RETURN E - EXHAUST SECOND LETTER: D - DIFFUSER G - GRILLE 2. CATALOG NUMBERS REFER TO TITUS DEVICES (UNLESS INDICATED OTHERWISE) 3. MANUAL DAMPERS SHALL BE OPERABLE FROM FACE. "X" - OPPOSED BLADE "B" - RADIAL OPPOSED BLADE "C" - BUTTERFLY														
4. FINISH - "A" - METAL-ESCENT ALUM. BAKED ENAMEL "B" - FACTORY "DURA-BEZE" "C" - BAKED OFF WHITE ENAMEL FINISH "D" - STANDARD OFF WHITE FINISH FIELD PAINTED TO MATCH CEILING OR WALLS 5. BORDER STYLE - "A" - SURFACE MOUNTED "B" - LAVAN MOUNTED "C" - LAY-IN PANEL. PROVIDE WITH FRAME FOR PLASTER OR DRYWALL, CEILING OR WALL MOUNTING														
MARK	CATALOG NO.	MOD.	NECK	AIR BLOW	MOUNTING			ACCESSORIES			MATERIAL			FINISH
					SIDEWALL	CEILING	DUCT	FLOOR	DPR	EQUAL GRID	STEEL	ALUM.	PLASTIC	BORDER STYLE
SD-1	250	12" X 12"	10"Ø	4-WAY	*				A			*		C A
SD-2	TMS	24" X 24"	10"Ø	4-WAY	*				A			*		C B
SD-3	TMS	24" X 24"	8"Ø	4-WAY	*				A			*		C B
SD-4	250	10" X 10"	8"Ø	4-WAY	*				A			*		C A
SD-5	250	10" X 8"	6"Ø	1-WAY	*				A			*		C A
SD-6	250	8" X 8"	6"Ø	2-WAY	*				A			*		C A
RG-1	350RL	25" X 16"	20" X 12"		*							*		C A
RG-2	350RL	24" X 24"	20" X 16"		*							*		C B

EXHAUST DEVICES										
MARK	MANUFACTURER	MODEL	CATALOG NUMBER	DUCT SIZE	FLOW	SP	FAN RMP	INPUT WATTS	VOLTZ-PH-HZ	ACCESSORIES
EG-1	COOK	AC6-D	100C10DH	8"Ø	85 CFM	-	-	-	-	CEILING EXHAUST GRILLE
EF-1	COOK	AC6-D	100C10DH	8"Ø	170 CFM	.375	150	76	115-140	ROOF ODP-SE ENCLOSURE
EF-2	COOK	GEMNI	GC-124	5"Ø	50 CFM	.250	659	41	115-140	CEILING

POTTER A/C, INC.
PLUMBING, HEATING, & AIR-CONDITIONING
9327 RANCHERO ST.
SAN ANTONIO, TEXAS 78240
(210) 690-5826
potterac@aol.com

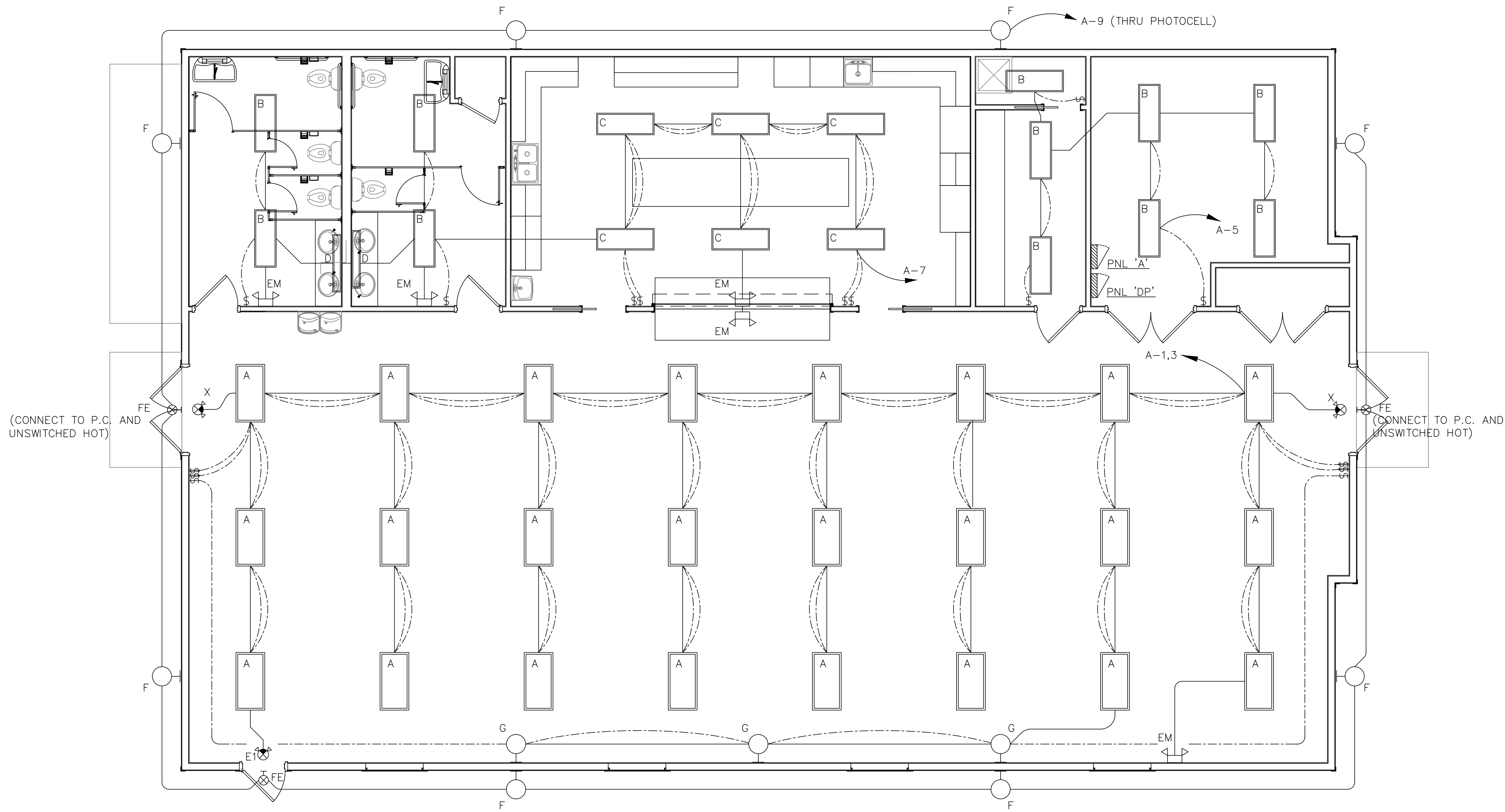
REVISIONS:	
DATE	BY

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M1
MAY 28, 2010

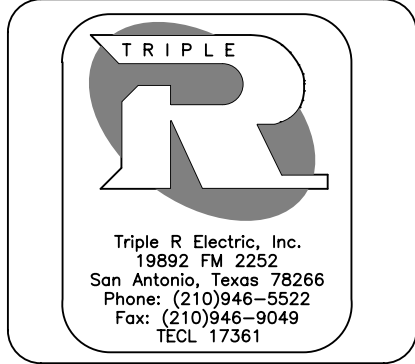
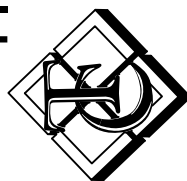
HVAC PLAN, SCHEDULES, DETAILS AND GENERAL NOTES



REVISIONS:	
DATE	BY

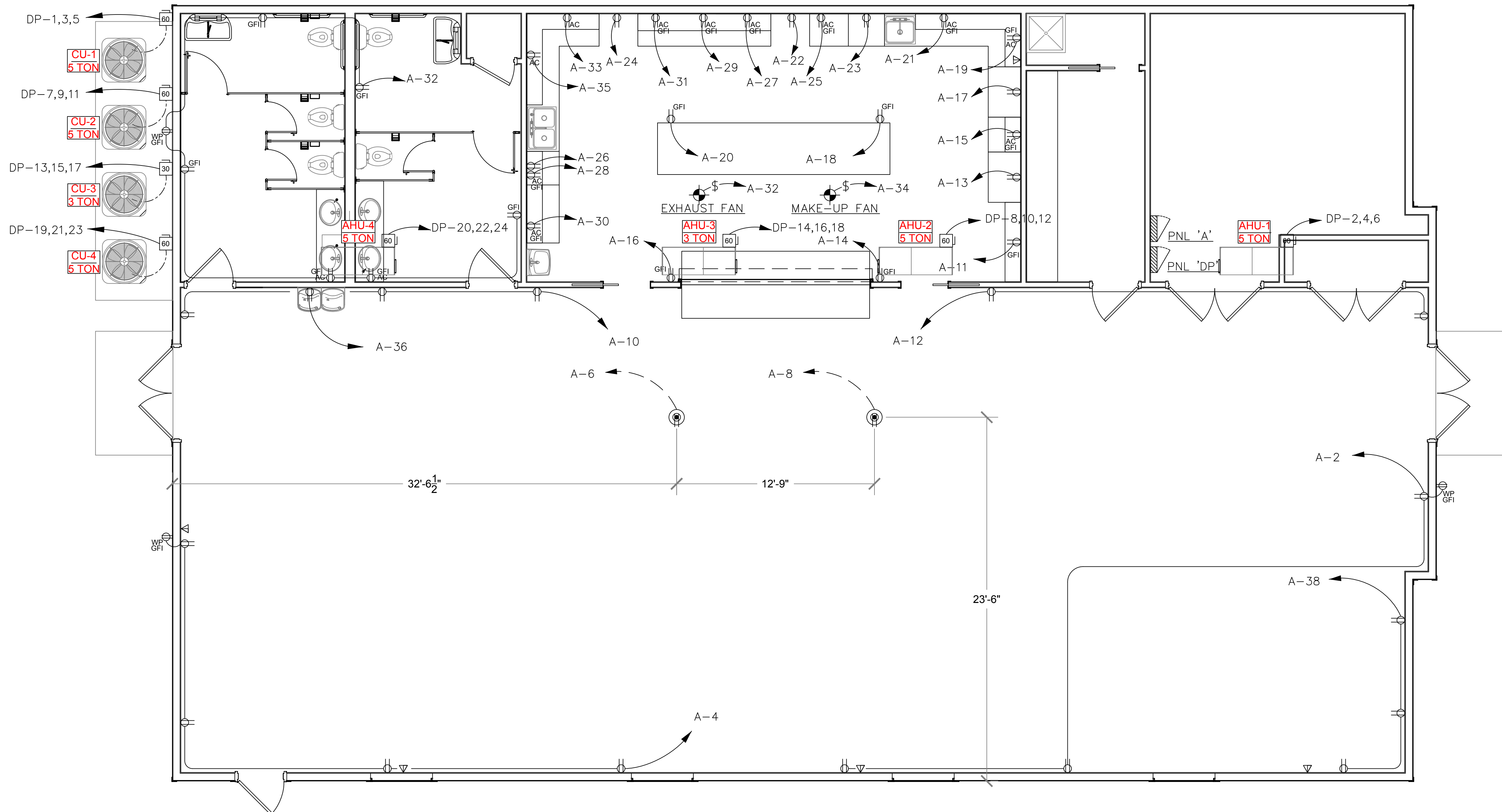
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SHEET NUMBER
E1.0
May 24, 2010

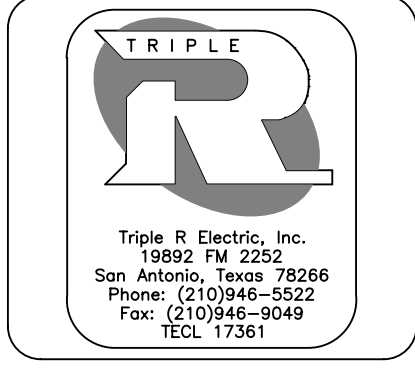
LIGHTING



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DATE	BY

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Triple R Electric, Inc.
19892 FM 2252
San Antonio, Texas 78266
Phone: (210) 946-2522
Fax: (210) 946-9049
TEL. 17581

SHEET NUMBER
E2.0
May 24, 2010

POWER

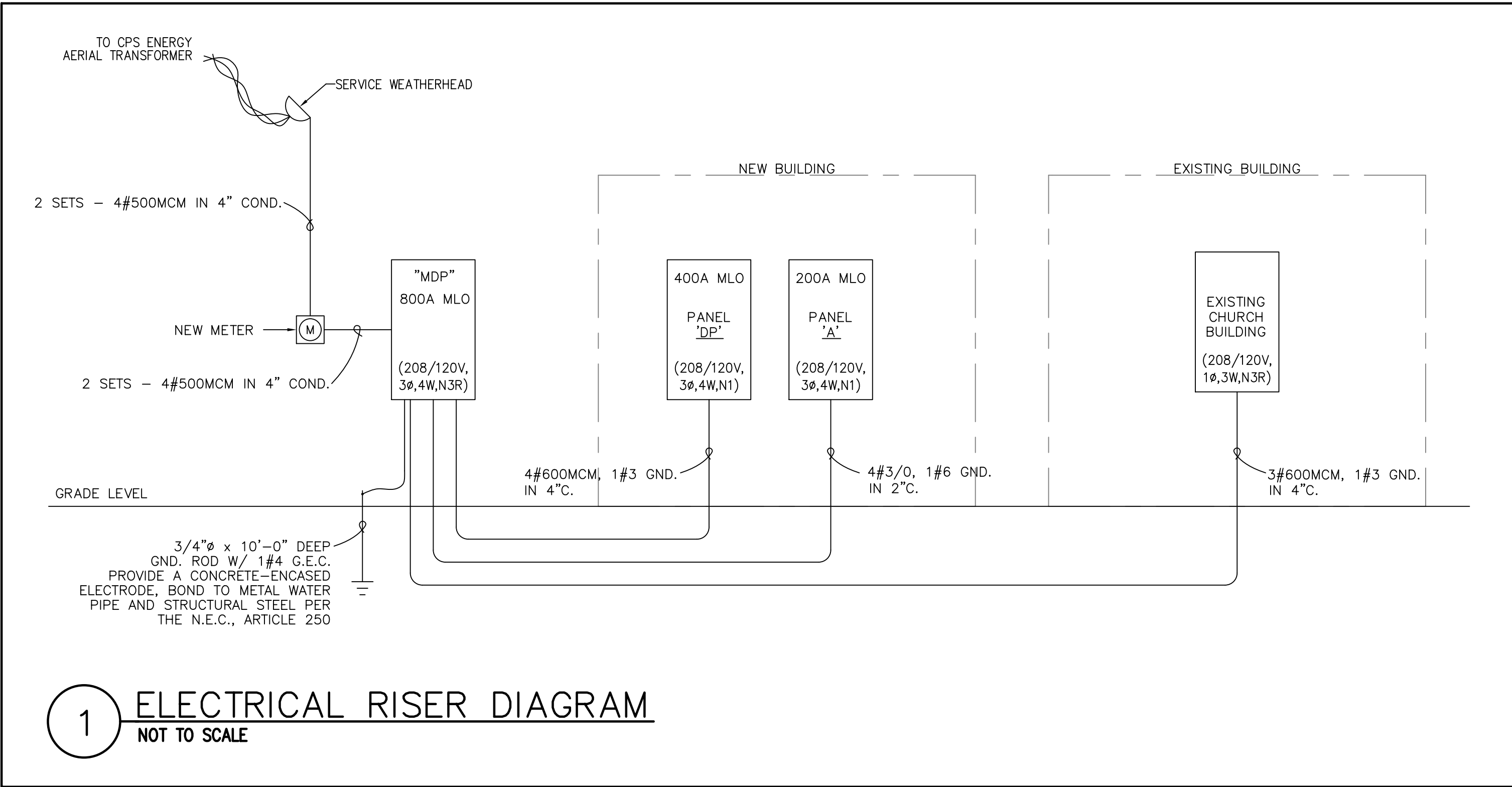
PANEL:	"DP"		VOLTAGE: 120/208 3PH, 4W		400 AMP		MLO	SURFACE MOUNT - NEMA 1		10K		A/C SYM.
					400A	BUS						
	LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
3	1	CONDENSING UNIT #1	40/3	2868	A	5220	45/3	AHU #1	2	4		
3	3	(5 TON)	-	2868	B	5220	-	-	4	4		
3	5	-	-	2868	C	5220	-	-	6	4		
3	7	CONDENSING UNIT #2	40/3	2868	A	5220	45/3	AHU #2	8	4		
3	9	(5 TON)	-	2868	B	5220	-	-	10	4		
3	11	-	-	2868	C	5220	-	-	12	4		
3	13	CONDENSING UNIT #3	20/3	1548	A	4800	40/3	AHU #3	14	4		
3	15	(3 TON)	-	1548	B	4800	-	-	16	4		
3	17	-	-	1548	C	4800	-	-	18	4		
3	19	CONDENSING UNIT #4	40/3	2868	A	5220	45/3	AHU #4	20	4		
3	21	(5 TON)	-	2868	B	5220	-	-	22	4		
3	23	-	-	2868	C	5220	-	-	24	4		
	25	SPACE		1548	A	2400		SPACE	26			
	27	SPACE		1548	B	2400		SPACE	28			
	29	SPACE		1548	C	2400		SPACE	30			
	31	SPACE			A			SPACE	32			
	33	SPACE			B			SPACE	34			
	35	SPACE			C			SPACE	36			
	37	SPACE			A			SPACE	38			
	39	SPACE			B			SPACE	40			
	41	SPACE			C			SPACE	42			
VOLT-AMPS			A PHASE	34560	NOTE:							
VOLT-AMPS			B PHASE	34560								
VOLT-AMPS			C PHASE	34560	LOAD TYPE SUMMARY							
TOTAL CONNECTED VOLT-AMPS				103680	KVA							
					1 =	LIGHTING	4.0					
					2 =	RECEPTACLES	7.8					
					3 =	COOLING	30.5					
PANEL VOLTAGE				208	61.4							
TOTAL CONNECTED LOAD - AMPS				287.8	4.4							
					6 =	OTHER	2.8					

PANEL:	"A"		VOLTAGE: 120/208 3PH, 4W		200 200A		AMP BUS	MLO	SURFACE MOUNT - NEMA 1		10K	A/C SYM.
					VOLT-AMPS							
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	LOAD	PHASE	LOAD	CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE		
1	1	LIGHTING	20/1	768	A	720	20/1	RECEPTACLES	2	2		
1	3	LIGHTING	20/1	1536	B	900	20/1	RECEPTACLES	4	2		
1	5	LIGHTING	20/1	448	C	250	20/1	FLOOR RECEPTACLE	6	2		
1	7	LIGHTING	20/1	944	A	250	20/1	FLOOR RECEPTACLE	8	2		
1	9	EXTERIOR LIGHTING	20/1	336	B	540	20/1	RECEPTACLES	10	2		
2	11	KITCHEN RECEPTACLE	20/1	250	C	360	20/1	RECEPTACLES	12	2		
2	13	KITCHEN RECEPTACLE	20/1	250	A	250	20/1	KITCHEN RECEPTACLE	14	2		
2	15	KITCHEN RECEPTACLE	20/1	250	B	250	20/1	KITCHEN RECEPTACLE	16	2		
2	17	KITCHEN RECEPTACLE	20/1	250	C	250	20/1	KITCHEN RECEPTACLE	18	2		
2	19	KITCHEN RECEPTACLE	20/1	250	A	250	20/1	KITCHEN RECEPTACLE	20	2		
2	21	KITCHEN RECEPTACLE	20/1	250	B	500	20/1	GAS RANGE	22	6		
2	23	KITCHEN RECEPTACLE	20/1	250	C	500	20/1	GAS RANGE	24	6		
2	25	KITCHEN RECEPTACLE	20/1	250	A	1800	20/1	DISHWASHER	26	6		
2	27	KITCHEN RECEPTACLE	20/1	250	B	250	20/1	KITCHEN RECEPTACLE	28	2		
2	29	KITCHEN RECEPTACLE	20/1	250	C	250	20/1	KITCHEN RECEPTACLE	30	2		
2	31	KITCHEN RECEPTACLE	20/1	250	A	1500	20/1	EXHAUST FAN	32	5		
2	33	KITCHEN RECEPTACLE	20/1	250	B	1500	20/1	MAKE-UP FAN	34	5		
2	35	KITCHEN RECEPTACLE	20/1	250	C	1400	20/1	DRINKING FOUNTAIN	36	5		
	37	SPARE	20/1		A	540	20/1	RECEPTACLES	38			
	39	SPARE	20/1		B		20/1	SPARE	40			
	41	SPARE	20/1		C		20/1	SPARE	42			
VOLT-AMPS		8022		A PHASE		NOTE: * PROVIDE GFCI-TYPE CIRCUIT BREAKER						
VOLT-AMPS		6812		B PHASE								
VOLT-AMPS		4708		C PHASE								
TOTAL CONNECTED VOLT-AMPS		19542										
PANEL VOLTAGE		208										
TOTAL CONNECTED LOAD - AMPS		54.2										
						LOAD TYPE SUMMARY						
						1 =		LIGHTING		4.0		
						2 =		RECEPTACLES		7.8		
						3 =		COOLING		-		
						4 =		HEATING		-		
						5 =		MOTORS		4.4		
						6 =		OTHER		2.8		

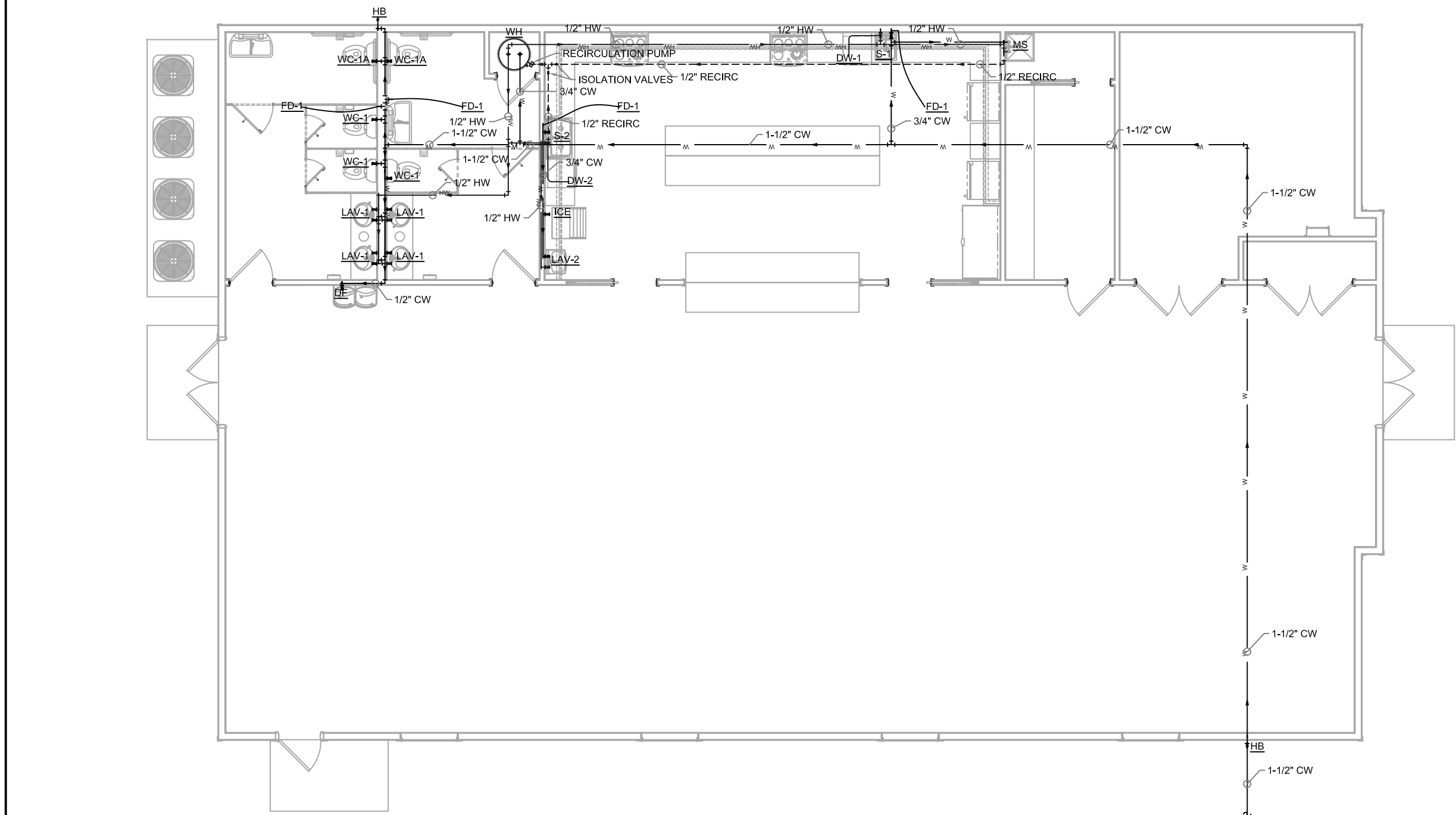
PANEL:	'MDP'		VOLTAGE: 120/208 3PH, 4W		800	AMP	MLO	SURFACE MOUNT - NEMA 3R		35K	A/C SYM.
LOAD TYPE	CIR. NO.	CIR. DESCRIPTION	CB SIZE	VOLT-AMPS			CB SIZE	CIR. DESCRIPTION	CIR. NO.	LOAD TYPE	
	1	PANEL DP	400/3	34560	A	8022	200/3	PANEL A	2		
	3	-	-	34560	B	6812	-	-	4		
	5	-	-	34560	C	4708	-	-	6		
	7	EXISTING CHURCH BLDG.	400/3	31250	A				8		
	9	-	-	31250	B				10		
	11	-	-	31250	C				12		
	13				A				14		
	15				B				16		
	17				C				18		
	19				A				20		
	21				B				22		
	23				C				24		
	25				A				26		
	27				B				28		
	29				C				30		
	31				A				32		
	33				B				34		
	35				C				36		
	37				A				38		
	39				B				40		
	41				C				42		
VOLT-AMPS			A PHASE	73832		NOTES:					
VOLT-AMPS			B PHASE	72622							
VOLT-AMPS			C PHASE	70518		LOAD TYPE SUMMARY					
TOTAL CONNECTED VOLT-AMPS				216972							
PANEL VOLTAGE				208							
TOTAL CONNECTED LOAD - AMPS				602.3							
						KVA					
						1 = LIGHTING					
						2 = RECEPTACLES					
						3 = COOLING					
						4 = HEATING					
						5 = MOTORS					
						6 = OTHER					

LIGHTING FIXTURE SCHEDULE								
TYPE	MFG	CATALOG NUMBER	MOUNTING	NO.	LAMPS WATTS	TYPES	VOLTS	NOTES
A	LITHONIA	2GT8 3 32 A12 MVOLT GEB	RECESSED GRID	3	32	F32T8	120	2 BALLAST
B	LITHONIA	LB 2 32 MVOLT GEB	SURFACE	2	32	F32T9	120	
C	LITHONIA	LB 3 32 MVOLT GEB	SURFACE	2	32	F32T9	120	DUAL SWITCH BALLASTS 2
D	LITHONIA	WC 2 32 MVOLT GEB	WALL	2	32	F32T9	120	
F	LITHONIA	WST 2/32TRT FT MVOLT LPI DDBT	WALL	2	32	TRT	120	
FE	LITHONIA	WST 2/32TRT FT MVOLT ELDW LPI DDBT	WALL	2	32	TRT	120	BATTERY PACK
G	TBD	OWNER FURNISHED WALL SCONCE	WALL	2	32	TRT	120	
EM	LITHONIA	ELM2	WALL	2	5.4	KRYPTON	120	BATTERY PACK
X	LITHONIA	ECR M6	UNIVERSAL	N/A	1.5	LED	120	COMBO EXIT BATTERY PACK

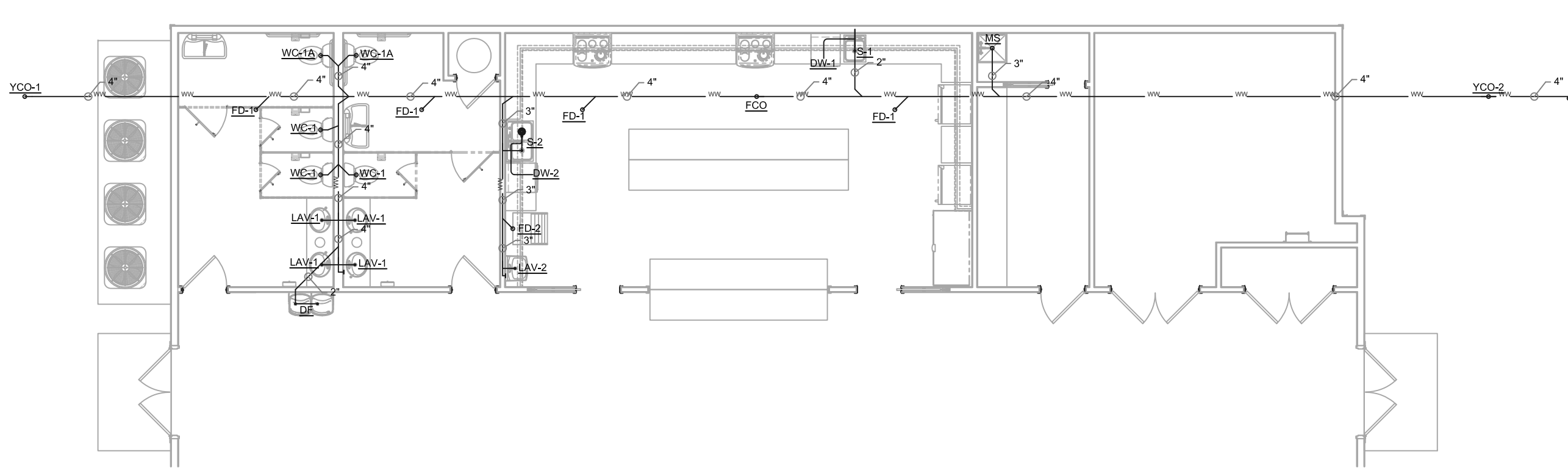
ELECTRICAL LOAD ANALYSIS - BINGO BUILDING			
EXISTING LOAD	LOAD - KVA	DEMAND FACTOR	DEMAND LOAD - KVA
EXISTING PEAK LOAD	75	1.25	93.75
NEW LOAD TYPE	LOAD - KVA	DEMAND FACTOR	DEMAND LOAD - KVA
LIGHTING	8.1	1.25	10.1
RECEPTACLES	15.5	1.00	15.5
A/C COOLING & HEAT PUMPS	30.5	1.00	30.5
ELECTRIC SPACE HEATING	61.4	1.00	61.4
MOTORS	8.8	1.00	8.8
OTHER / MISCELLANEOUS	5.6	1.00	5.6
ELECTRIC WATER HEATING	9.0	1.00	9.0
TOTAL LOAD (KVA)			234.6
TOTAL AMPS @ 120/208 VOLT - 3 PHASE			651
ELECTRICAL SERVICE CAPACITY			800 AMPS



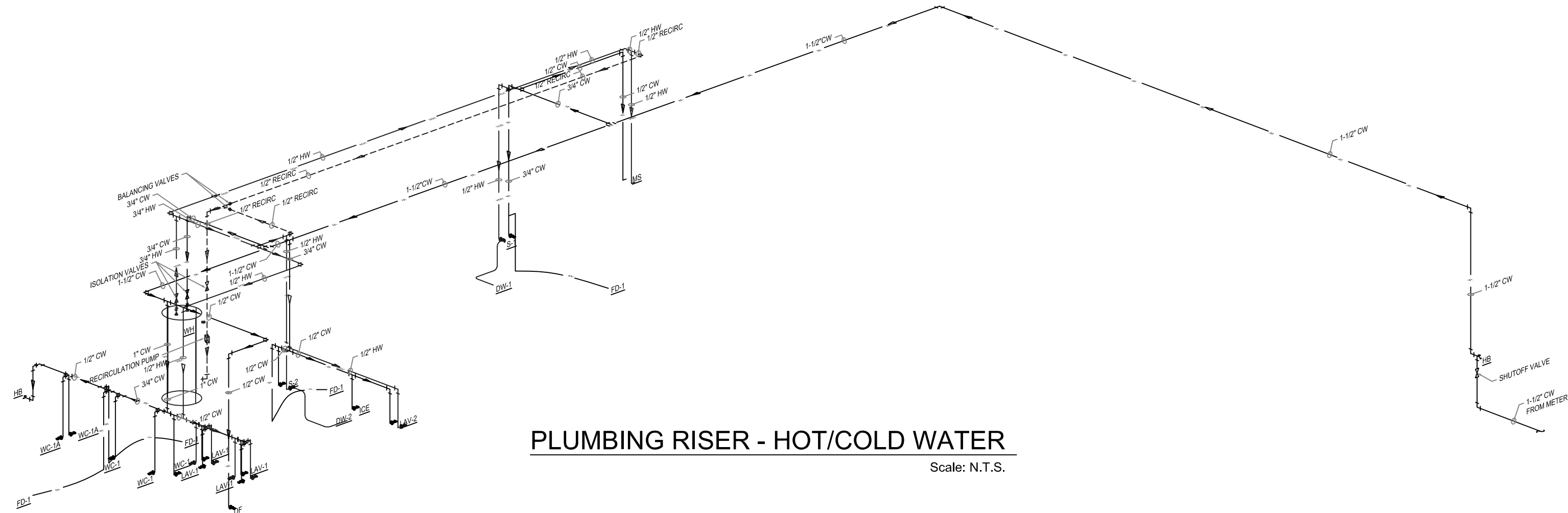
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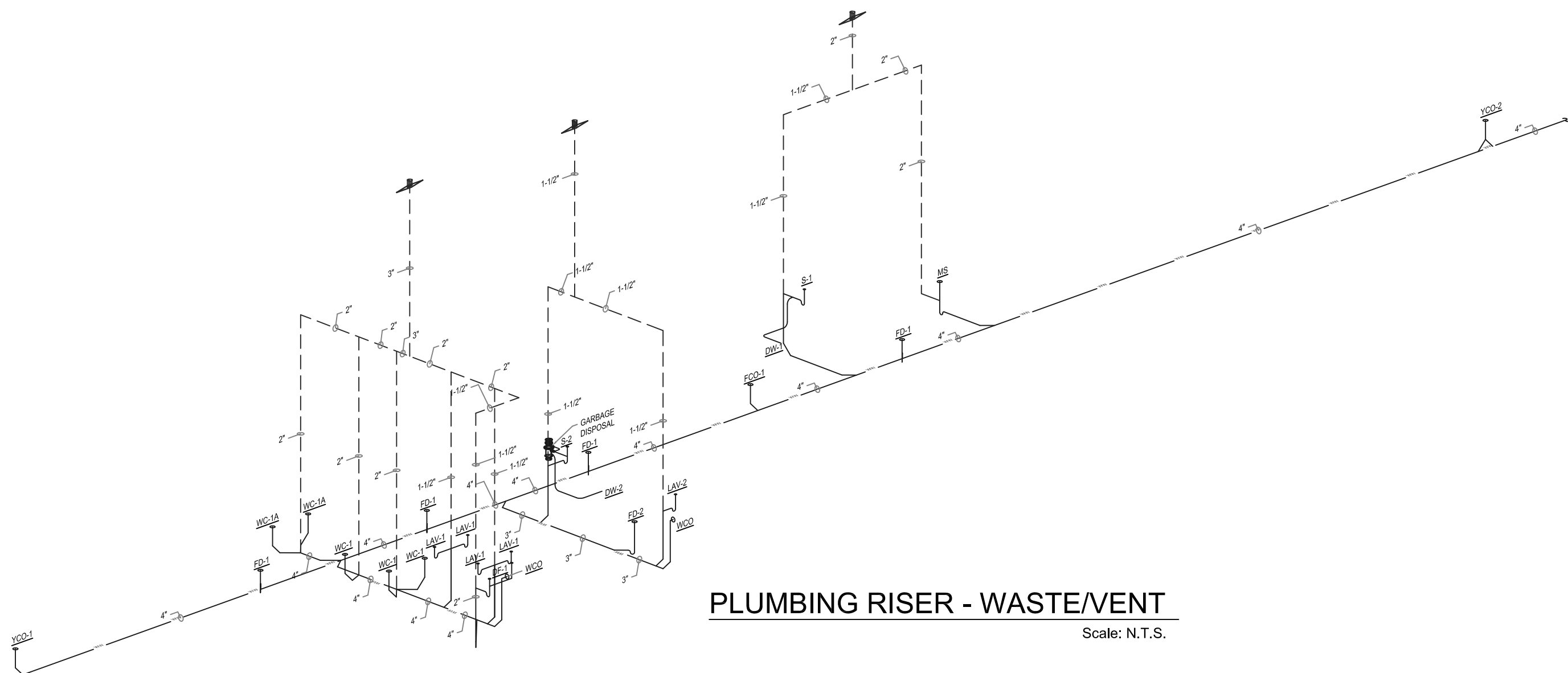
PLUMBING FLOOR PLAN - WATER
Scale: 1/8" = 1'



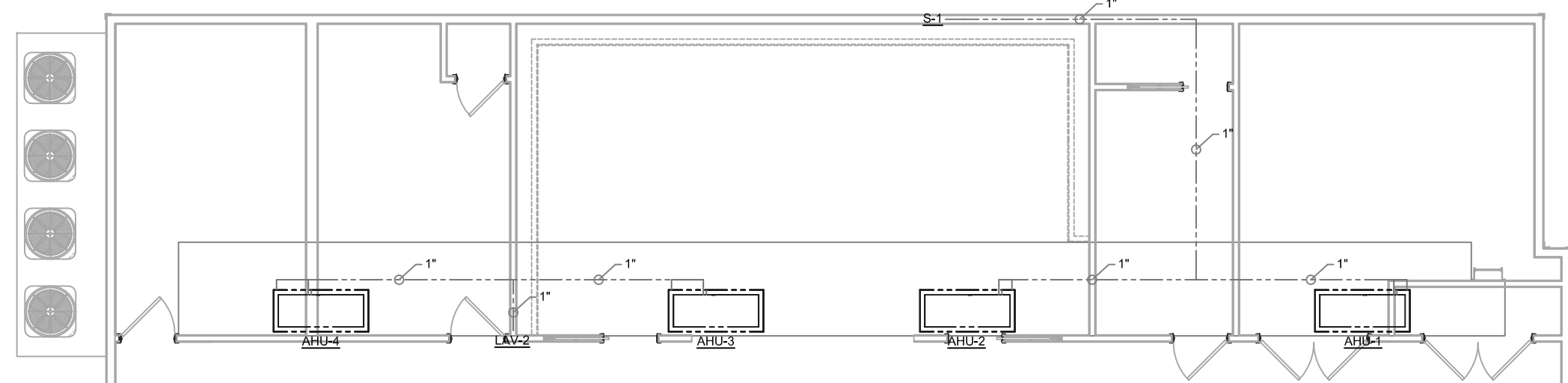
PLUMBING FLOOR PLAN - WASTE/VENT
Scale: 1/8" = 1'



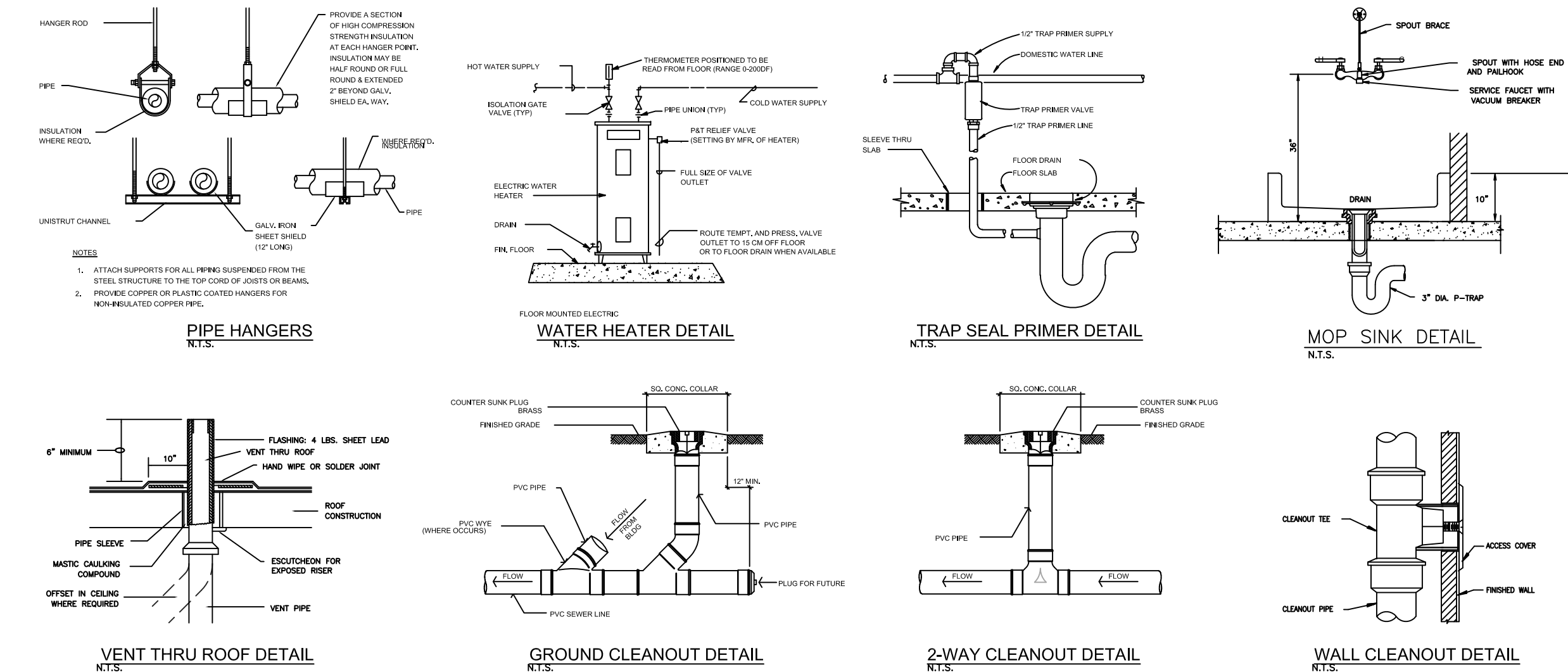
PLUMBING RISER - HOT/COLD WATER
Scale: N.T.S.



PLUMBING RISER - WASTE/VENT
Scale: N.T.S.



PLUMBING MEZZANINE FLOOR PLAN - HVAC CONDENSATE DRAIN
Scale: 1/8" = 1'

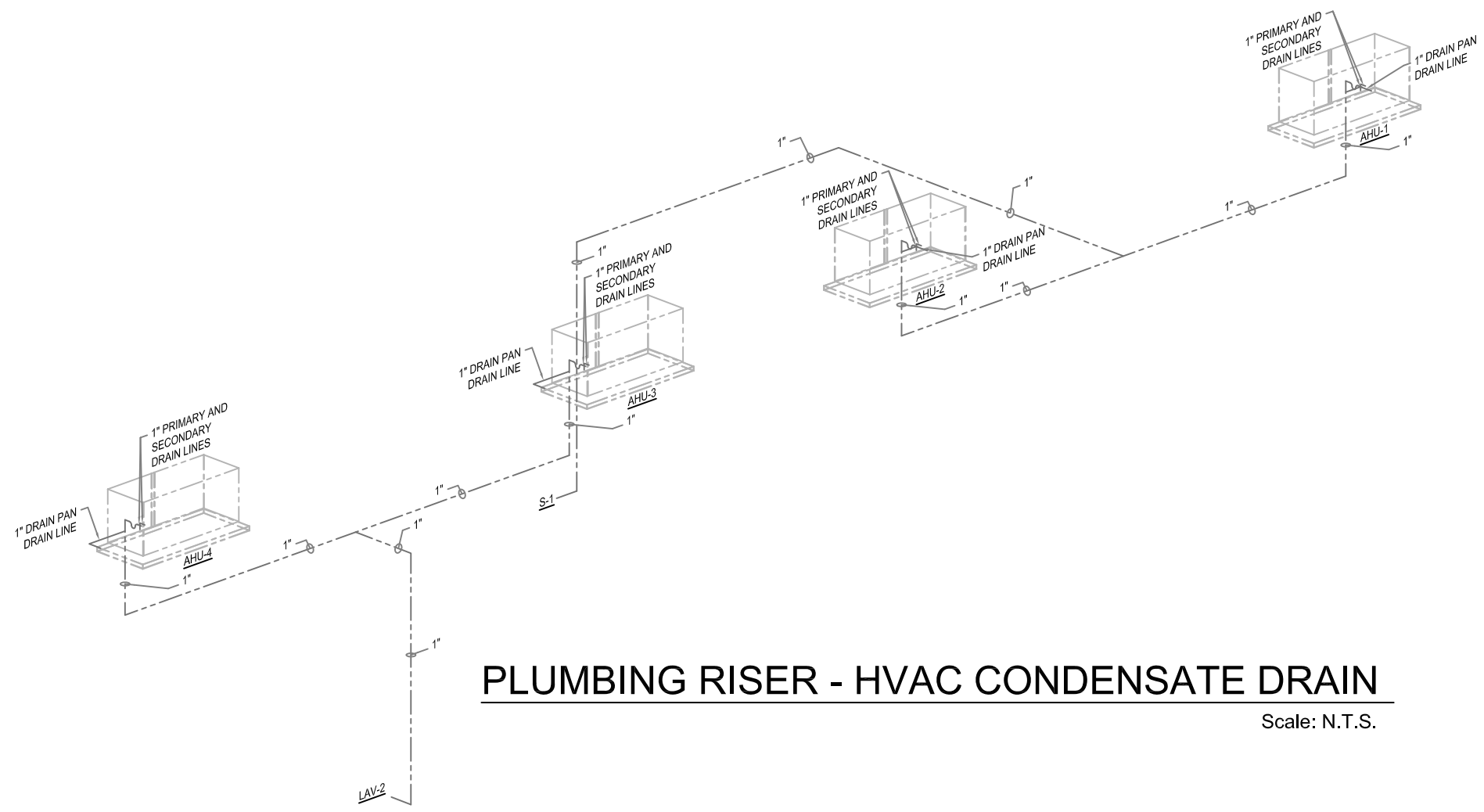


PLUMBING FIXTURESCHEDULE						
MARK	DESCRIPTION	WASTE	VENT	C.W.	H.W.	REMARKS
WC-1	WATER CLOSET	3"	2"	1/2"		FLUSH TANK, FLOOR MOUNTED
WC-1A	WATER CLOSET - ADA	3"	2"	1/2"		FLUSH TANK, FLOOR MOUNTED, ADA COMPLIANT
LAV-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	COUNTERTOP MOUNTED, ADA COMPLIANT
LAV-S	LAVATORY	2"	1-1/2"	1/2"	1/2"	WALL MOUNTED, ADA COMPLIANT
S-1	SINK, SINGLE COMPARTMENT	2"	1-1/2"	1/2"	1/2"	SINGLE DEEP WELL, COUNTERTOP MOUNTED
S-2	SINK, DOUBLE COMPARTMENT	2"	1-1/2"	1/2"	1/2"	DOUBLE DEEP WELL, COUNTERTOP MOUNTED
MS	MOP SINK	3"	2"	1/2"	1/2"	CORNER, FLOOR MOUNTED
DF	DRINKING FOUNTAIN	2"	1-1/2"	1/2"		WALL MOUNTED, BLEVEL, ADA COMPLIANT W/ HANDICAP SKIRT
WH	WATER HEATER			3/4"	3/4"	50 GAL. ELEC. W/ PAN DRAIN & 1" OVERFLOW, ISOLATION VALVES AT BOTH HOT AND COLD WATER CONNECTIONS, RECIRCULATING PUMP FOR KITCHEN AREA
DW-1	DISHWASHER	1"		1/2"		CONNECT TO DRAIN FOR S-1, WATER SUPPLY FROM S-1
DW-2	DISHWASHER	1"		1/2"		DRAIN TO GARBAGE DISPOSAL, WATER SUPPLY FROM S-2
ICE	ICE MAKER/MACHINE				1/2"	CONDENSATE DRAIN TO FD-2
HB	HOSE BIB				1/2"	WALL MOUNTED
FD-1	FLOOR DRAIN	2"		1"		TRAP PRIMER, PRESSURE ACTUATED IN-LINE WITH AIR GAP
FD-2	FLOOR DRAIN	2"				UNDER ICE MACHINE
WCO	CLEANOUT	4"				WALL MOUNTED CLEANOUT
FCO	CLEANOUT	4"				FLOOR MOUNTED CLEANOUT, FLUSH WITH FINISHED FLOOR
YCO-1	CLEANOUT	4"				YARD CLEANOUT
YCO-2	CLEANOUT	4"				2-WAY YARD CLEANOUT

UNLESS NOTED OTHERWISE ON THE PLANS, ALL WASTE, VENT, C.W. AND H.W. LINES ARE AS SPECIFIED IN THIS SCHEDULE.

NOTES:

1. ALL WORK TO MEET KARNES CITY PLUMBING CODES.
2. ALL WORK TO MEET ADA STANDARDS, CODES & REGULATIONS.
3. ALL WORK TO MEET INTERNATIONAL ENERGY CONSERVATION CODE (I.E.C.C.) - LATEST EDITION.
4. ALL FIXTURES TO HAVE CUT-OFF VALVES, WATER SUPPLY, WASTE & VENTS AS SCHEDULED.
5. WATER LINES TO BE INSULATED.
6. ALL FIXTURES TO BE INDIVIDUALLY VENTED & CONNECTED ABOVE CEILING TO VENT THRU ROOF.



PLUMBING RISER - HVAC CONDENSATE DRAIN
Scale: N.T.S.

REVISIONS:	
DATE	BY

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SHEET NUMBER
P1
MAY 28, 2010